Devices thru Material Innovation

NEC/TOKIN

Vol.10

# Power Inductors

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9631PWIVOL10E1205E0

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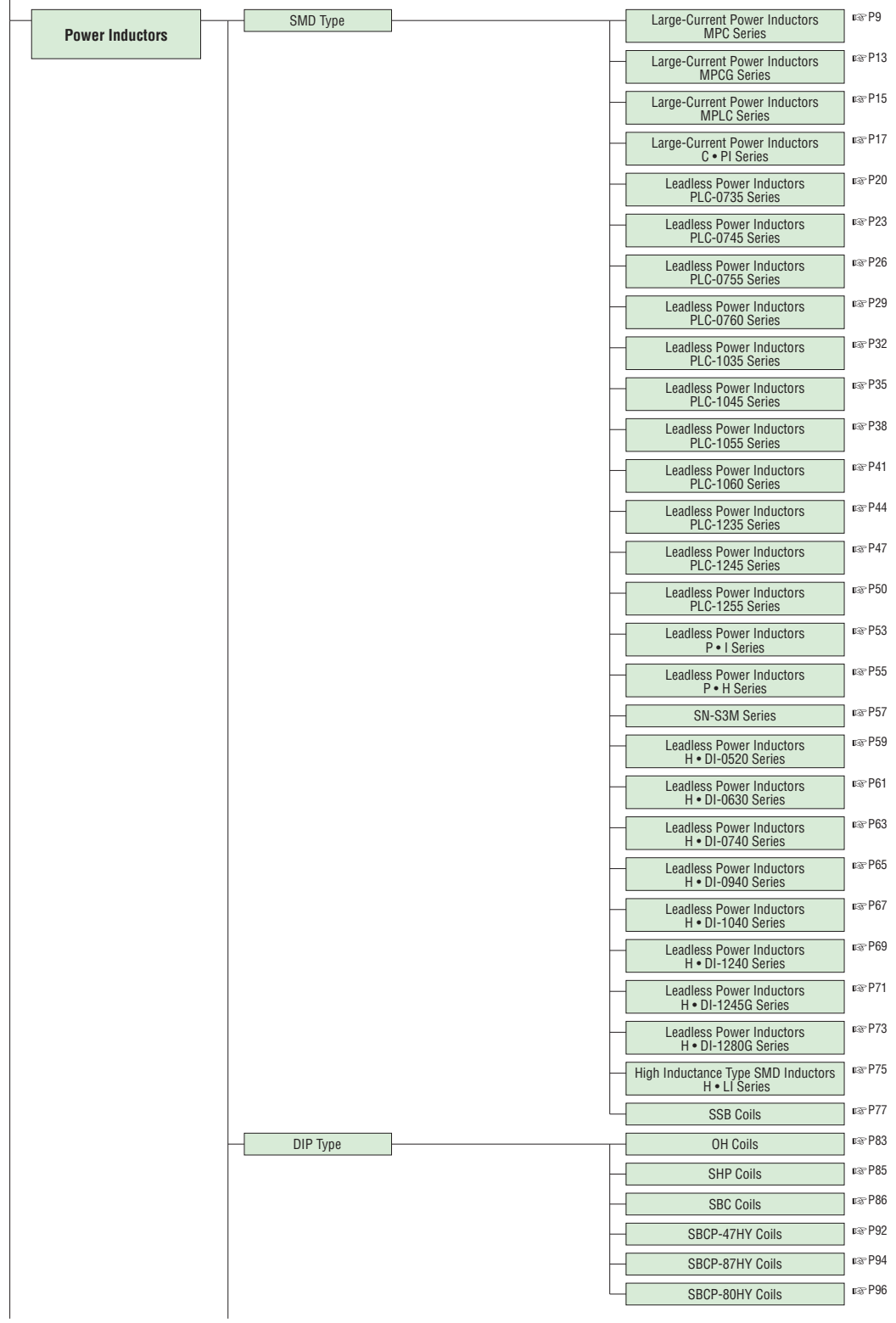
## Classification of NEC TOKIN's EMI suppression parts

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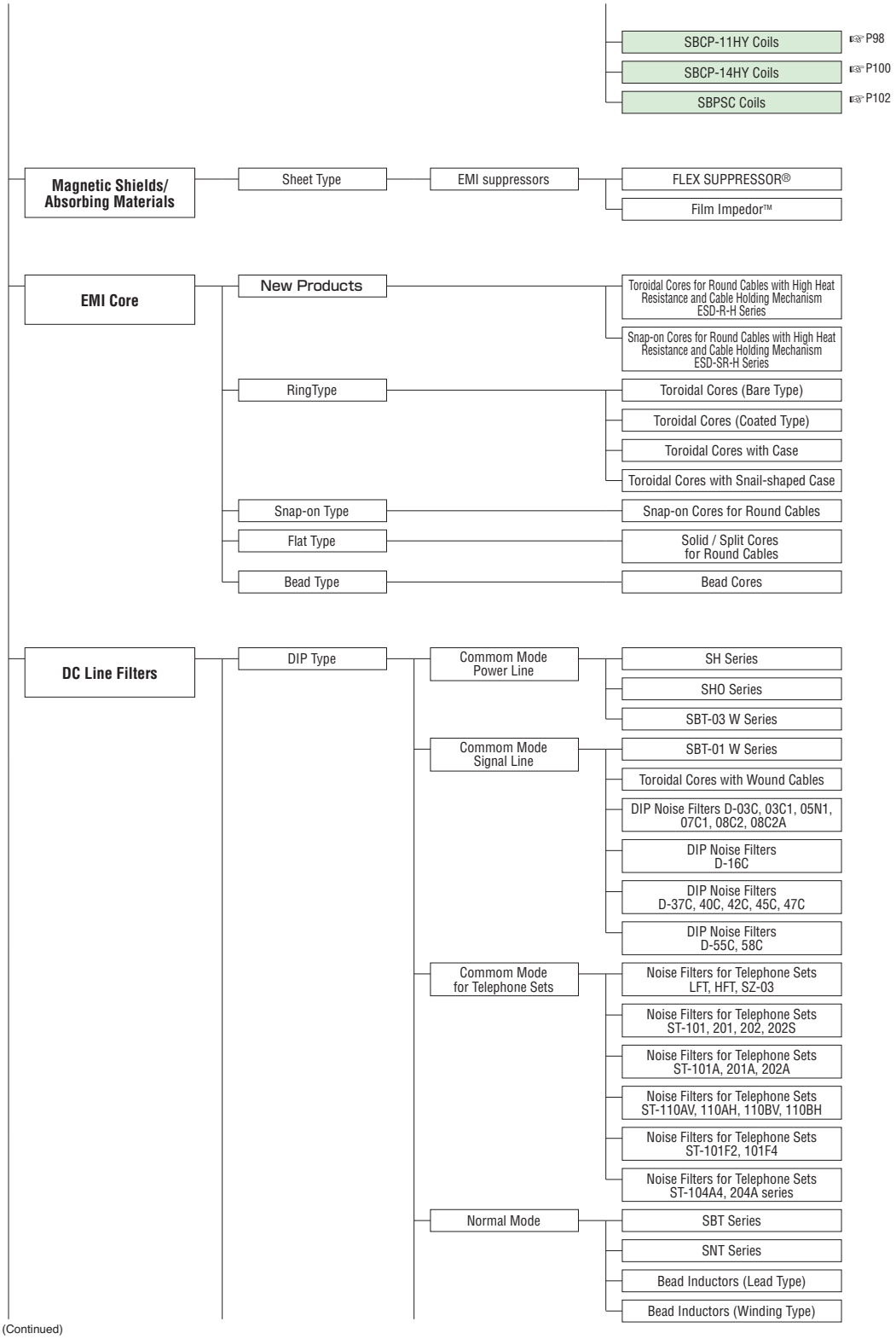


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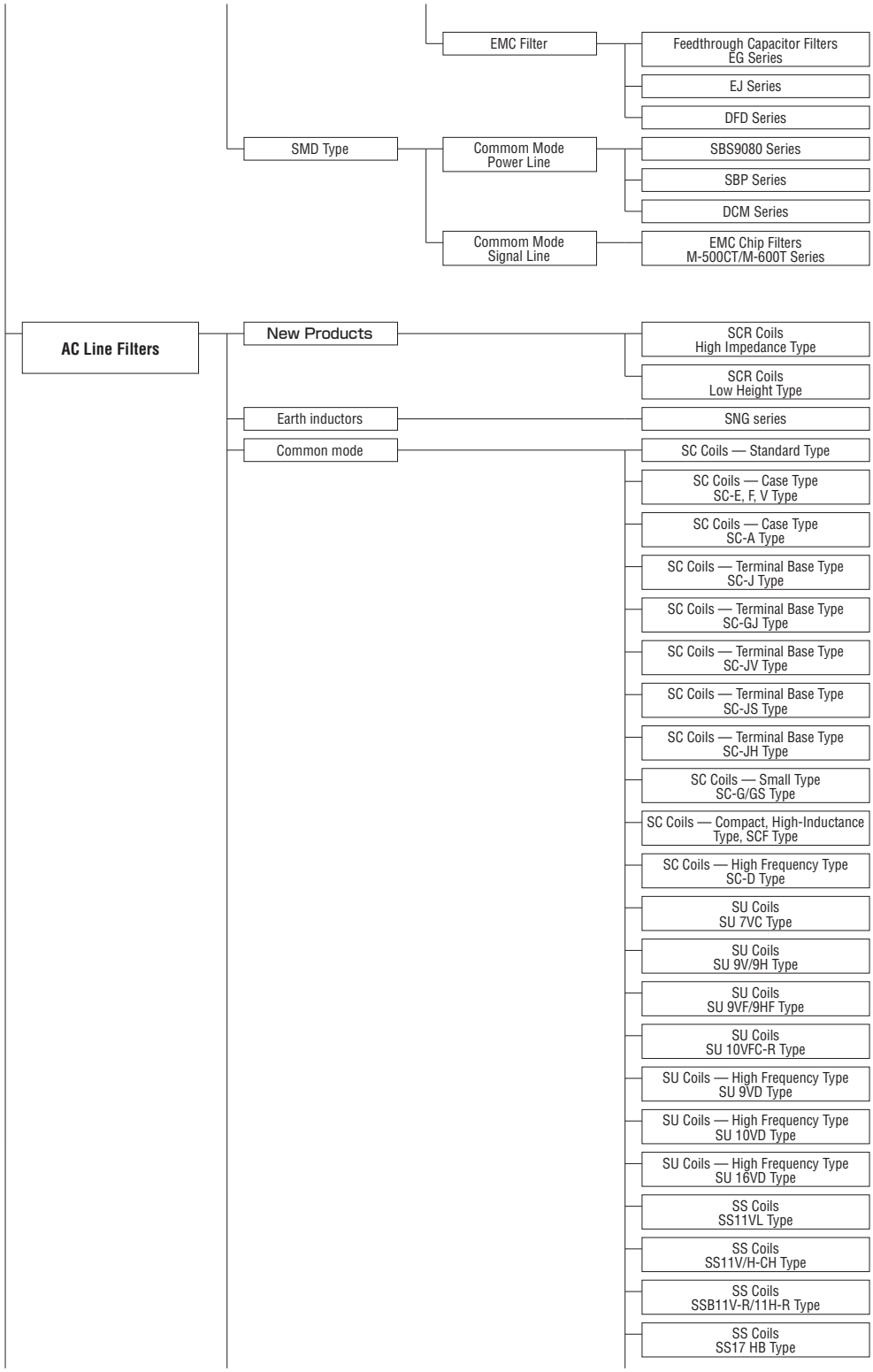


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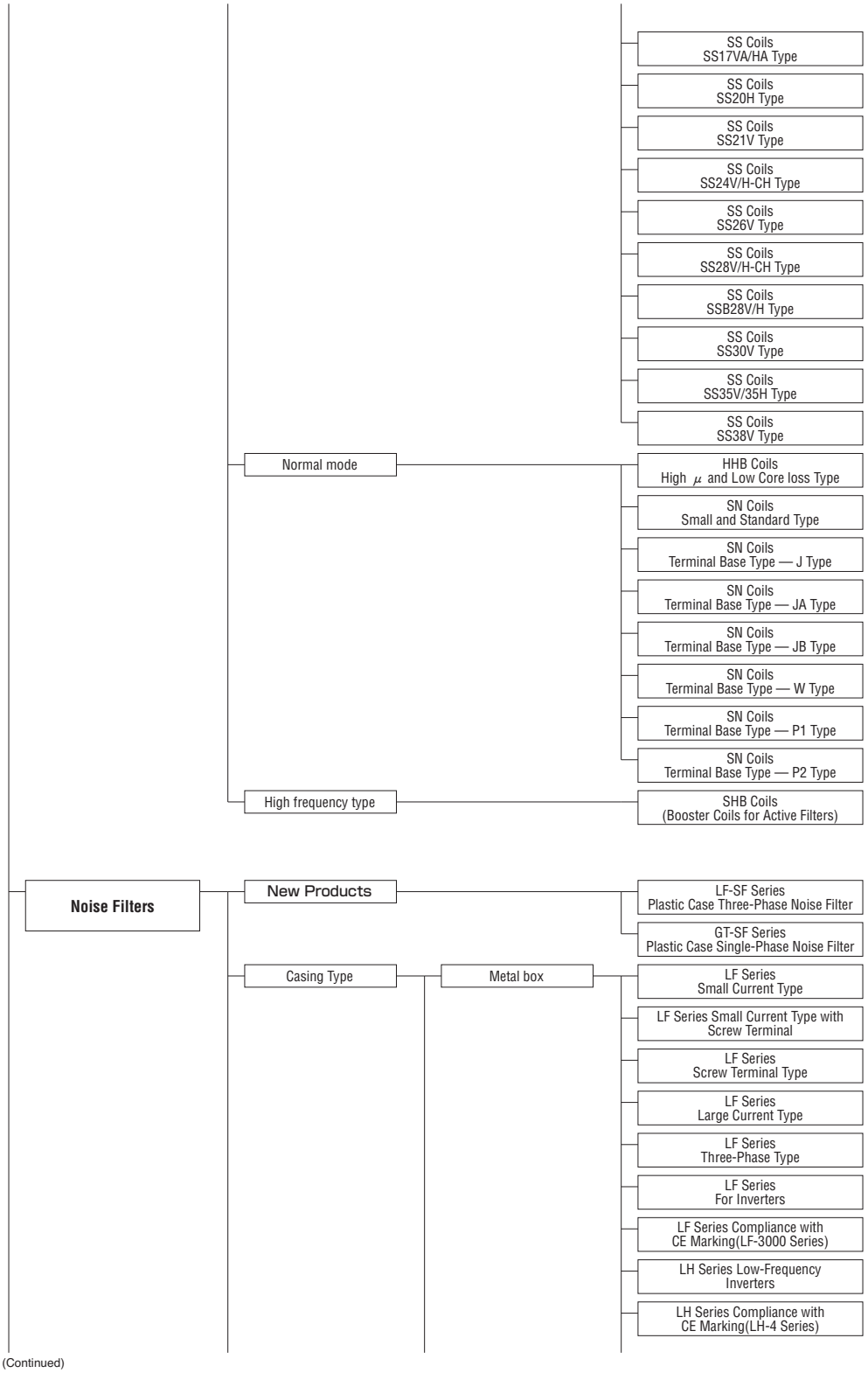


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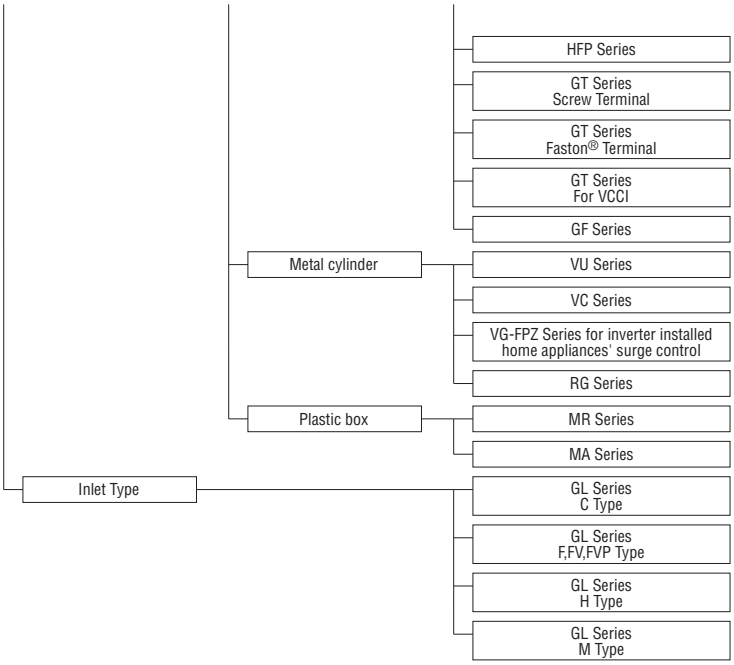




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## SMD Type Inductors

| Series name | Dimensions (mm) | Inductance ($\mu$H) | Rated current (A) | Major features and applications | Page |
|---|---|---|---|---|---|
| MPC Series | 8×6.7×4～5<br>11.5×10×4<br>11.7×10×5.5<br>14.5×12.5×5 | 0.42～0.6<br>0.36～0.88<br>0.36、1<br>0.36～0.5 | 17～22<br>17～25.5<br>18.5～32<br>35～38 | HighSpeed/large current DC/DC Converter | 9 |
| MPCG Series | 8×6.7×4<br>11.5×10×4 | 0.42<br>0.36～0.45 | 22<br>25 | HighSpeed/large current DC/DC Converter | 13 |
| MPLC Series | 7.7×6.7×3<br>11.5×10×4 | 1～4.7<br>1～4.7 | 5～10.6<br>8～14.3 | Large-Current Inductors | 15 |
| C・PI Series | 13.5×14×5.5～6.5<br>12.5×13.3×5<br>10×10.4×5 | 0.7～2.7<br>0.55<br>0.55～2.7 | 13～26<br>25<br>9～19 | DC/DC converters for notebook PCs | 17 |
| P・I-LM Series | 12.7×10.2×6 | 8.2～220 | 0.5～2.3 | Compact size, high reliability, smoothing inductors for automotives | 53 |
| P・I-LS Series | 9.5×7×5 | 3.3～47 | 0.7～2 | | 53 |
| P・I-ZM Series | 12.7×10.2×6 | 2.7～330 | 0.5～2.9 | Compact size, high reliability, noise suppression for automotives | 53 |
| P・I-ZS Series | 9.5×7×5 | 1.2～8.2 | 0.6～3 | | 53 |
| P・H-LM Series | 12.7×10.2×6 | 82～150 | 0.7～1.2 | Compact size, high reliability, smoothing inductors for automotives | 55 |
| SN-S3M Series | 10×7×4.7 | 0.8～23 | 0.5～2 | Compact size, noise suppression | 57 |
| PLC 0735 Series | 7.5×8×3.5 | 2～33 | 1.6～5 | Magnetic shielded type, DC/DC converters | 20 |
| PLC 0745 Series | 7.5×8×4.5 | 2～33 | 1.7～5.1 | | 23 |
| PLC 0755 Series | 7.5×8×5.5 | 2～33 | 1.9～6.4 | | 26 |
| PLC 0760 Series | 7.5×8×6 | 2～33 | 1.9～6.5 | | 29 |
| PLC 1035 Series | 10.2×10.7×3.5 | 2～33 | 1.5～6 | | 32 |
| PLC 1045 Series | 10.2×10.7×4.5 | 2～33 | 2.2～6.9 | | 35 |
| PLC 1055 Series | 10.2×10.7×5.5 | 2～33 | 2.7～8.2 | | 38 |
| PLC 1060 Series | 10.2×10.7×6 | 2～33 | 2.3～6.7 | | 41 |
| PLC 1235 Series | 12.5×13×3.5 | 2～33 | 1.8～6.7 | | 44 |
| PLC 1245 Series | 12.5×13×4.5 | 2～33 | 2.9～7.4 | | 47 |
| PLC 1255 Series | 12.5×13×5.5 | 2～33 | 3.4～7.8 | | 50 |
| H・DI-0520 Series | 5×5×1.8 | 1.2～100 | 0.2～3.4 | Magnetic shielded type, DC/DC converters | 59 |
| H・DI-0630 Series | 6×5.9×2.8 | 1.3～100 | 0.45～2.7 | | 61 |
| H・DI-0740 Series | 7.1×7.1×3.8 | 1.2～100 | 0.5～4.5 | | 63 |
| H・DI-0940 Series | 9.5×9.5×4 | 6.8～1000 | 0.28～3.4 | | 65 |
| H・DI-1040 Series | 10.2×10.2×3.8 | 1.5～100 | 1.3～7.3 | | 67 |
| H・DI-1240 Series | 12.5×12.5×4 | 2.2～1000 | 0.35～5.1 | | 69 |
| H・DI-1245G Series | 12.5×12.5×4.5 | 10～220 | 0.85～4.5 | | 71 |
| H・DI-1280G Series | 12.5×12.5×8 | 1.7～220 | 1.3～8.5 | | 73 |
| H・LI-0505 Series | 5.7×5.7×5.3 | 2～5mH | 40～100mA | Magnetic shielded type, compact and high inductance | 75 |
| SSB15 Series | 11.6×14×8.5 | 1～1000 | 0.29～10 | Standard type, non-shielded type | 77 |
| SSB14 Series | 11.6×14×7 | 1～1000 | 0.23～7 | | 77 |
| SSB84 Series | 8.3×10×6 | 1～1000 | 0.18～2.3 | | 78 |
| SSB64 Series | 6.3×8×6 | 1～1000 | 0.14～1.7 | | 78 |
| SSB44 Series | 4.8×6.5×5.5 | 1～680 | 0.1～1.9 | | 78 |



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# Large-Current Power Inductors MPC Series

## [RoHS Compliant]

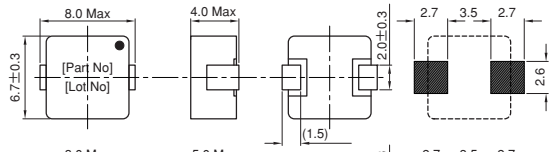
• Precautions (see page 82)

| Model | Inductance (μH) at 100kHz | DC resistance (mΩ) typ. | Rated current (A) Irms *1 (Ref.) | Isat *2 (Ref.) |
|---|---|---|---|---|
| **MPC0740LR42C** | 0.42±20% | 1.55±10% | 22.0 | 20.0 |
| **MPC0750LR60C** | 0.60±20% | 2.30±10% | 17.0 | 19.0 |
| **MPC1040LR36C** | 0.36±20% | 1.05±10% | 25.5 | 30.0 |
| **MPC1040LR45C** | 0.45±20% | 1.10±10% | 25.0 | 27.0 |
| **MPC1040LR56C** | 0.56±20% | 1.30±10% | 23.0 | 25.0 |
| **MPC1040LR88C** | 0.88±20% | 2.30±10% | 17.0 | 24.0 |
| **MPC1055LR36C** | 0.36±20% | 0.75±10% | 32.0 | 35.0 |
| **MPC1055L1R0C** | 1.00±20% | 2.30±10% | 18.5 | 21.0 |
| **MPC1250LR36C** | 0.36±20% | 0.65±10% | 38.0 | 40.0 |
| **MPC1250LR50C** | 0.50±20% | 0.80±10% | 35.0 | 40.0 |

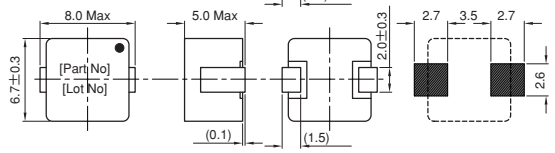
＊1 T=40K rise at rated current. ＊2 Inductance drop 20% at rated current.
●Operating temperature range: −20~+120℃ (Include self temperature rise)

**Shape and Dimensions** **Recommended Land Pattern**

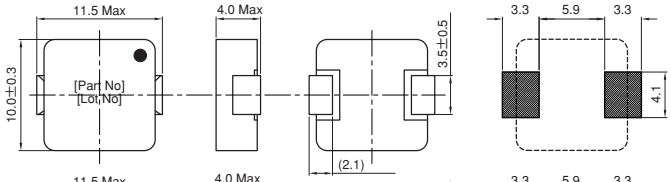
●MPC0740LR42C



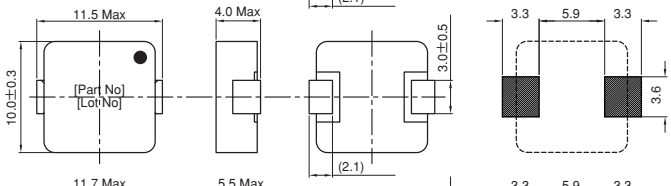

●MPC0750LR60C



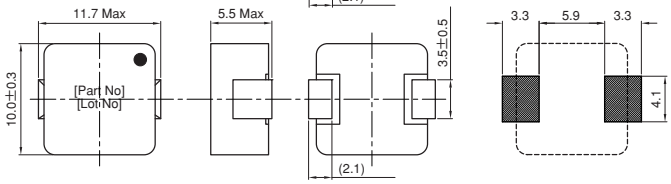

●MPC1040LR36C
●MPC1040LR45C
●MPC1040LR56C




●MPC1040LR88C




●MPC1055LR36C




[mm]



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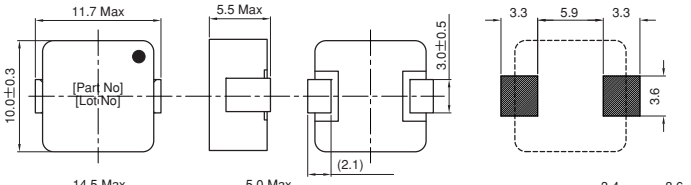
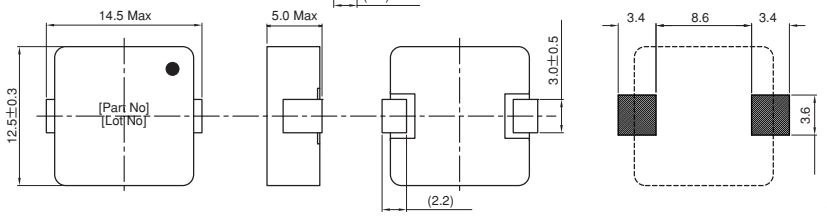
**Shape and Dimensions** **Recommended Land Pattern**

●MPC1055L1R0C




●MPC1250LR36C
●MPC1250LR50C



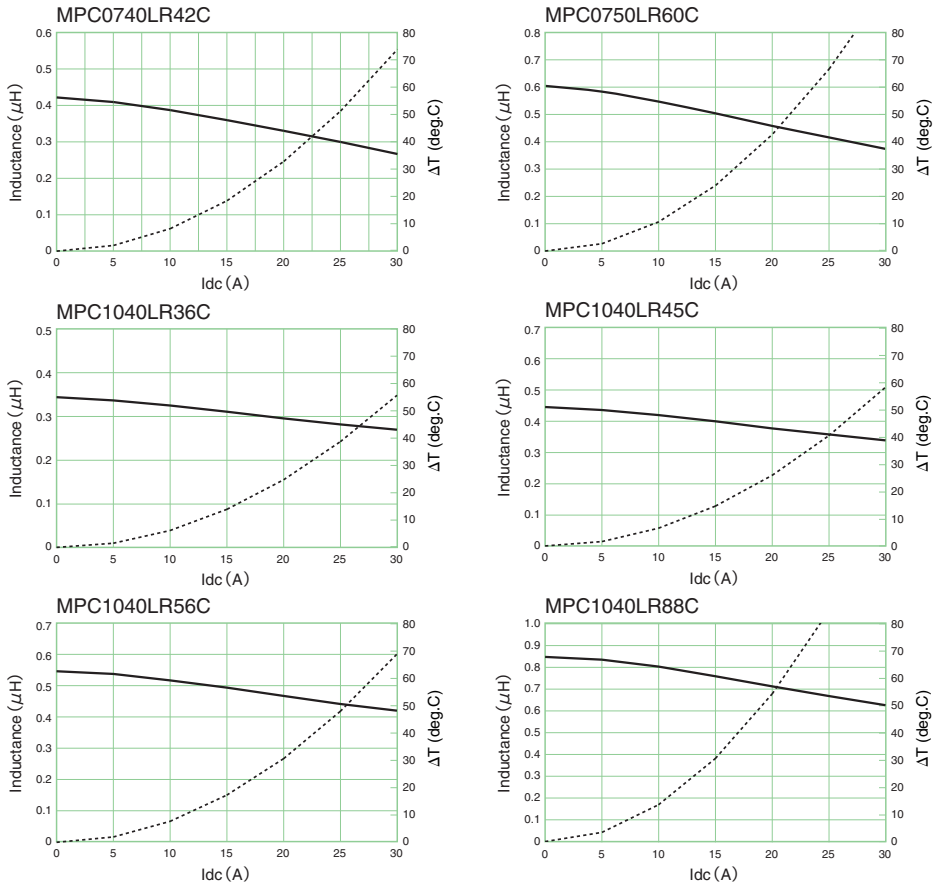

[mm]

## Numbering System

**MPC -1040 -LR36C**
① ② ③

① Series
② Dimensions 10···W×D:11.5×10 mm 40···H:4.0 mm
③ Inductance R36···0.36μH

**DC-Superposed Characteristics**



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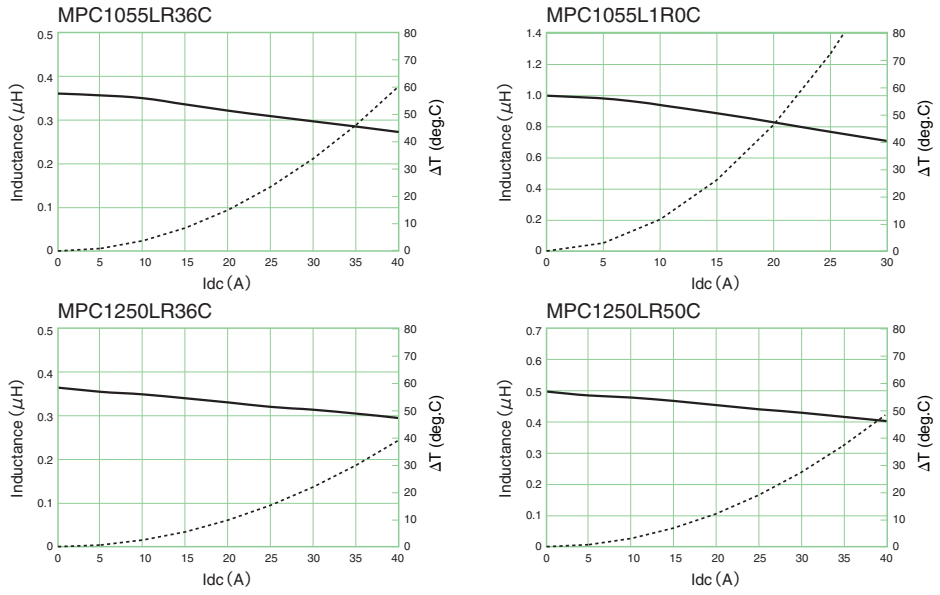
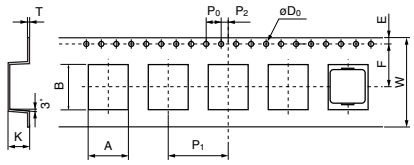
**Temperature rise**




## MPC0740, 0750 Series (1000pcs./reel)

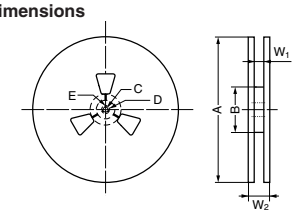
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 7.0 | 8.0 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.3 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±1.0 | ±0.2 | ±0.8 | ±0.5 | | ±1.0 | ±1.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | R1.0 | 17.5 | 21.5 |



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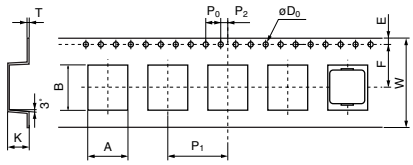
## MPC1040 Series (500pcs./reel)

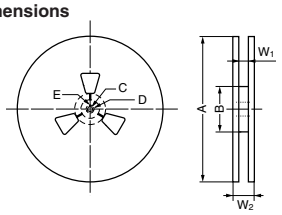
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.2 |

**Reel dimensions**

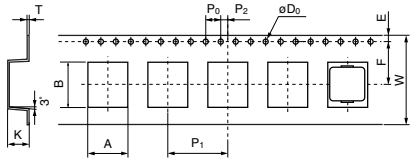



[mm]

| A | B | C | D | E | r | W1 | W2 |
|---|---|---|---|---|---|---|---|
| ±5.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |

## MPC1055 Series (500pcs./reel)

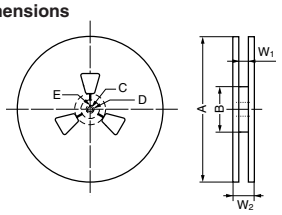
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.0 |

**Reel dimensions**

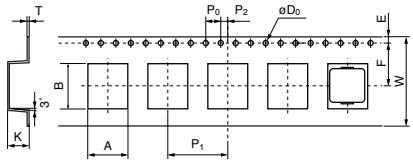



[mm]

| A | B | C | D | E | r | W1 | W2 |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±1.0 | ±0.5 | ±0.8 | ±0.5 | | ±2.0 | ±3.0 |
| ø380 | ø100 | ø13.0 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |

## MPC1250 Series (500pcs./reel)

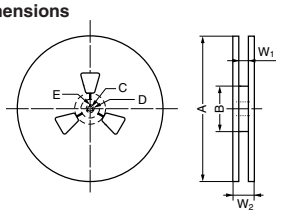
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.02 | ±0.1 | ±0.2 |
| 13.1 | 14.6 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 5.3 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | W1 | W2 |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | ±2.0 | ±3.0 |
| ø380 | ø100 | ø13.0 | ø21.0 | 2.0 | R1.0 | 25.5 | 28.5 |



⚠

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# Large-Current Power Inductors MPCG Series〈Low-Loss Series〉

## [RoHS Compliant]

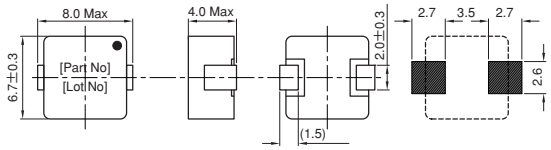
• Precautions (see page 82)

| Model | Inductance (μH) at 100kHz | DC resistance (mΩ) typ. | Rated current (A) Irms *1 (Ref.) | Isat *2 (Ref.) |
|---|---|---|---|---|
| **MPCG0740LR42** | 0.42±20% | 1.55±10% | 22.0 | 20.0 |
| **MPCG1040LR36** | 0.36±20% | 1.05±10% | 25.5 | 30.0 |
| **MPCG1040LR45** | 0.45±20% | 1.10±10% | 25.0 | 27.0 |

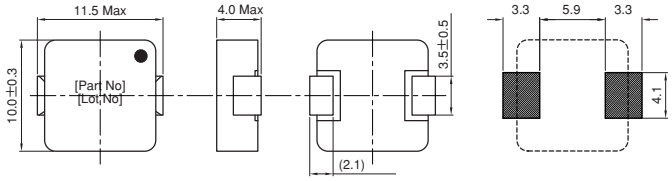
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
●Operating temperature range: −20~+120℃ (Include self temperature rise)

**Shape and Dimensions** **Recommended Land Pattern**

●MPCG0740LR42




●MPCG1040LR36
●MPCG1040LR45



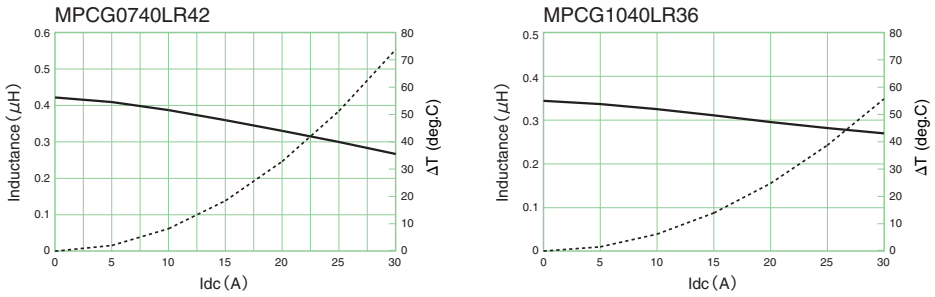

[mm]

## Numbering System

**MPCG - 1040 - LR36**
① ② ③

① Series
② Dimensions 10…W×D:11.5×10 mm 40…H:4.0 mm
③ Inductance R36…0.36μH

**DC-Superposed Characteristics**



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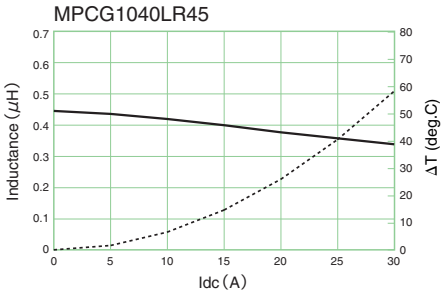
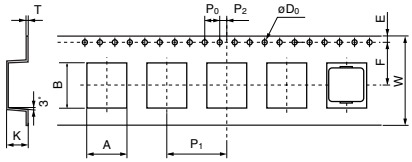
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**




## MPCG0740 Series (1000pcs./reel)

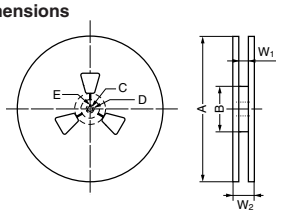
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 7.0 | 8.0 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.3 |

**Reel dimensions**

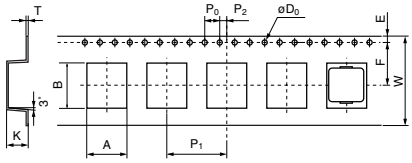



[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±1.0 | ±0.2 | ±0.8 | ±0.5 | | ±1.0 | ±1.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | R1.0 | 17.5 | 21.5 |

## MPCG1040 Series (500pcs./reel)

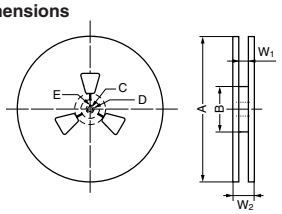
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.2 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±5.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |



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9631PWIVOL10E1205E0

# Large-Current Power Inductors MPLC Series

## [RoHS Compliant]

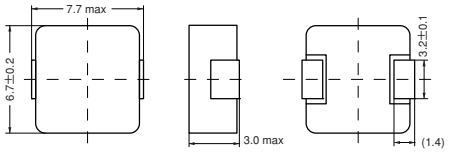
• Precautions (see page 82)

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance (mΩ) max. | Rated current (A) Irms *1 (Ref.) | Isat *2 (Ref.) |
|---|---|---|---|---|
| **MPLC0730L1R0** | 1.0±20% | 9.0 | 10.6 | 11.0 |
| **MPLC0730L1R5** | 1.5±20% | 15.0 | 8.6 | 8.8 |
| **MPLC0730L2R2** | 2.2±20% | 19.0 | 7.3 | 8.2 |
| **MPLC0730L3R3** | 3.3±20% | 30.0 | 5.7 | 6.5 |
| **MPLC0730L4R7** | 4.7±20% | 41.0 | 5.0 | 5.6 |
| **MPLC1040L1R0** | 1.0±20% | 5.5 | 14.3 | 16.2 |
| **MPLC1040L1R5** | 1.5±20% | 7.0 | 12.4 | 12.7 |
| **MPLC1040L2R2** | 2.2±20% | 10.0 | 10.5 | 11.0 |
| **MPLC1040L3R3** | 3.3±20% | 14.0 | 8.8 | 9.3 |
| **MPLC1040L4R7** | 4.7±20% | 19.0 | 8.0 | 8.0 |

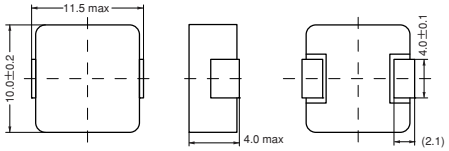
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
●Operating temperature range: −20～+120℃ (Include self temperature rise)

### Shape and Dimensions

●MPLC0730 Series



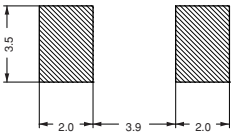

●MPLC1040 Series



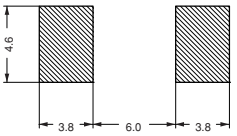

[mm]

### Recommended Land Pattern

●MPLC0730 Series



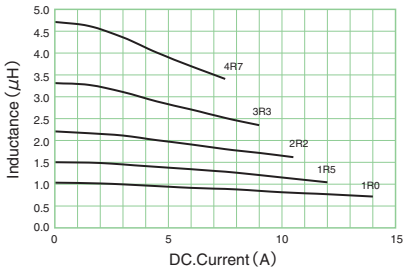

●MPLC1040 Series



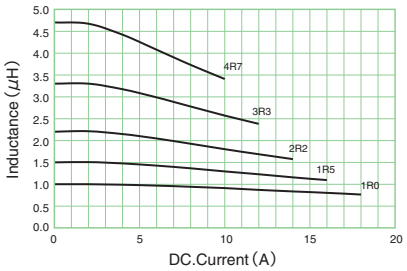

[mm]

### DC-Superposed Characteristics

MPLC0730 Series




MPLC1040 Series



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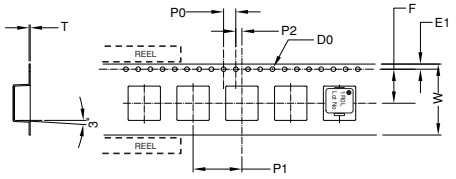
9631PWIVOL10E1205E0

## MPLC0730 Series (1000pcs./reel)

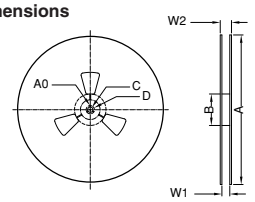
**Dimensions of indented square hole plastic tape**




[mm]

| W | F | $E_1$ | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T |
|---|---|---|---|---|---|---|---|
| ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 |
| 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 |

**Reel dimensions**

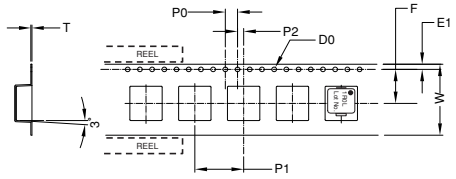



[mm]

| A | B | C | D | $A_0$ | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±5.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | ±0.5 | ±0.5 |
| ø380 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 25.5 | 29.5 |

## MPLC1040 Series (500pcs./reel)

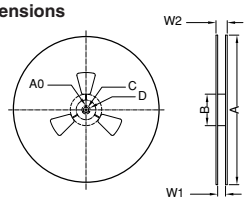
**Dimensions of indented square hole plastic tape**




[mm]

| W | F | $E_1$ | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T |
|---|---|---|---|---|---|---|---|
| ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 |
| 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | $A_0$ | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±1.0 | ±0.5 | ±0.8 | ±0.5 | | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |



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9631PWIVOL10E1205E0

# Large-Current Power Inductors C·PI Series

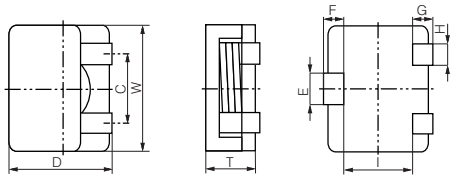
## [RoHS Compliant]

• Precautions (see page 82)

| Model | Inductance (μH) at DC 0A, 100kHz | DC resistance (mΩ) max. | Rated current (A) Irms *1 (Ref.) | Isat *2 (Ref.) |
|---|---|---|---|---|
| **C·PI-1050-0R6S** | 0.55±30% | 1.7(1.4) | 19.0 | 17.0 |
| **C·PI-1050-1R0S** | 1.0±30% | 2.9(2.5) | 16.0 | 15.0 |
| **C·PI-1050-1R6S** | 1.6±30% | 4.0(3.5) | 13.0 | 13.0 |
| **C·PI-1050-2R2S** | 2.2±30% | 6.3(5.4) | 11.0 | 12.0 |
| **C·PI-1050-2R7S** | 2.7±30% | 12.6(10.5) | 9.0 | 10.0 |
| **C·PI-1250-0R6S** | 0.55±30% | 1.2(0.9) | 25.0 | 26.0 |
| **C·PI-1350-0R7S** | 0.7±30% | 1.5(1.3) | 24.0 | 30.0 |
| **C·PI-1350-1R2S** | 1.2±30% | 2.5(2.1) | 19.0 | 17.0 |
| **C·PI-1365-0R7S** | 0.7±30% | 1.3(1.1) | 26.0 | 30.0 |
| **C·PI-1365-1R2S** | 1.2±30% | 1.7(1.5) | 24.0 | 25.0 |
| **C·PI-1365-3R0S** | 2.7±30% | 5.7(4.75) | 13.0 | 13.0 |

*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
●Operating temperature range : −20to+120℃(Includes self-temperature rise)

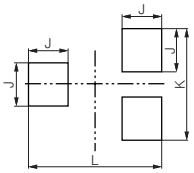
### Shape and Dimensions




| Model | W | D | C | T | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| C·PI-1050 Series | 10.4 | 10.0 | 6.0 | 5.0 max. | 1.8 | 1.3 | 2.0 | 1.4 | 6.2 |
| C·PI-1250 Series | 13.3 | 12.5 | 8.3 | 5.0 max. | 2.4 | 2.2 | 2.4 | 2.4 | 7.8 |
| C·PI-1350 Series | 14.0 | 13.5 | 8.5 | 5.0 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |
| C·PI-1365 Series | 14.0 | 13.5 | 8.5 | 6.5 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |

[mm]

### Recommended Land Pattern




| Model | J | K | L |
|---|---|---|---|
| C·PI-1050 Series | 3.5 | 10.1 | 11.5 |
| C·PI-1250 Series | 4.0 | 11.8 | 13.4 |
| C·PI-1350 Series | 4.0 | 12.3 | 15.2 |
| C·PI-1365 Series | 4.0 | 12.3 | 15.2 |

[mm]

### Numbering System

**C·PI -1350 -0R7**
① ② ③

① Series
② Dimensions 13···W×D : 14.0×13.5 mm 50···H : 5.0 mm
③ Inductance 0R7···0.7μH



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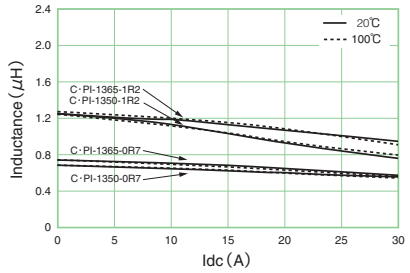
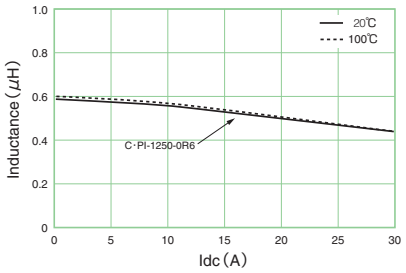
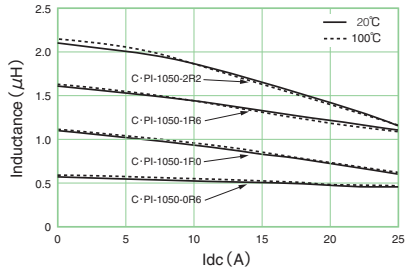
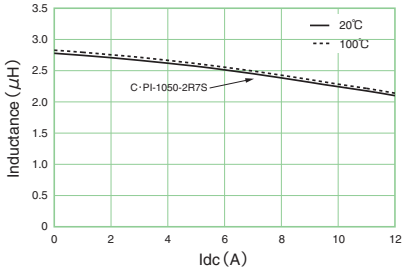
9631PWIVOL10E1205E0

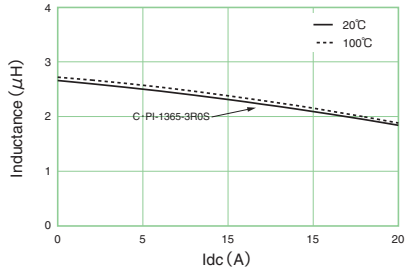
**DC-Superposed Characteristics**



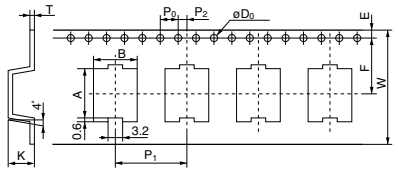




## C•PI-1050 Series (1000pcs./reel)

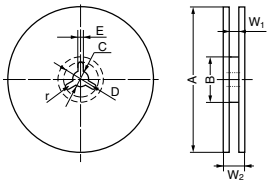
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 10 | 10.5 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | 1.5 | 0.4 | 5.9 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13 | 21 | 2.0 | R1.0 | 25.5 | 28.5 |



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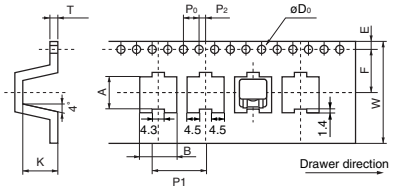
## C•PI-1250 Series (500pcs./reel)

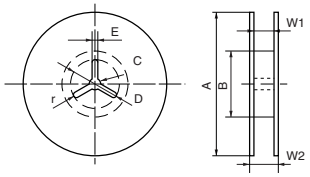
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 13.3 | 13.3 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 5.4 |

**Reel dimensions**

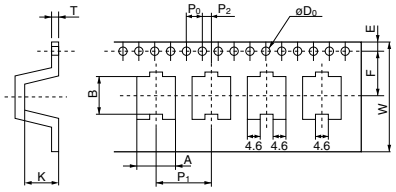



[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13.0 | 21.0 | 2.0 | R1.0 | 25.5 | 28.5 |

## C•PI-13•• Series (500pcs./reel)

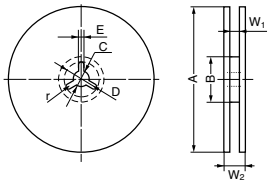
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | T | K |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 14.65 | 14.1 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 6.8 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13 | 21 | 2.0 | R1.0 | 25.5 | 28.5 |



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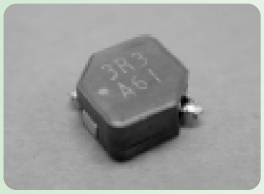
9631PWIVOL10E1205E0

# Leadless Power Inductors PLC-0735 Series

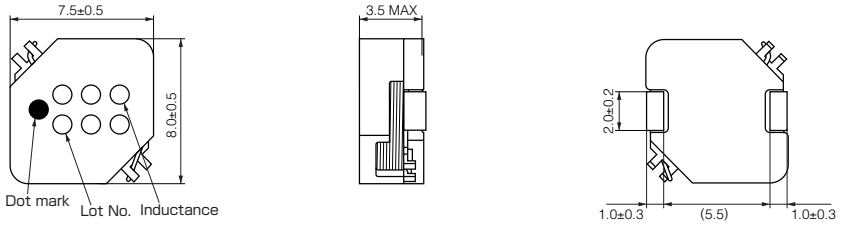
## [RoHS Compliant]



| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | Isat (Ref.) *2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-0735-2R0S** | 2.0±30% | 24 | 5.0 | 7.3 | 6.3 |
| **PLC-0735-3R3S** | 3.3±30% | 28 | 4.7 | 6.7 | 4.0 |
| **PLC-0735-4R7S** | 4.7±30% | 44 | 3.5 | 6.0 | 3.9 |
| **PLC-0735-5R6S** | 5.6±30% | 50 | 3.3 | 5.1 | 3.8 |
| **PLC-0735-6R8S** | 6.8±30% | 62 | 3.2 | 4.4 | 3.5 |
| **PLC-0735-8R2S** | 8.2±30% | 77 | 2.7 | 4.1 | 3.0 |
| **PLC-0735-100S** | 10.0±20% | 84 | 2.6 | 3.8 | 2.8 |
| **PLC-0735-120S** | 12.0±20% | 101 | 2.2 | 3.6 | 2.7 |
| **PLC-0735-150S** | 15.0±20% | 108 | 2.1 | 3.3 | 2.5 |
| **PLC-0735-180S** | 18.0±20% | 120 | 1.9 | 2.8 | 2.1 |
| **PLC-0735-220S** | 22.0±20% | 164 | 1.7 | 2.4 | 1.8 |
| **PLC-0735-330S** | 33.0±20% | 220 | 1.6 | 2.2 | 1.6 |

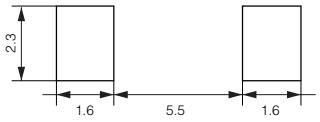
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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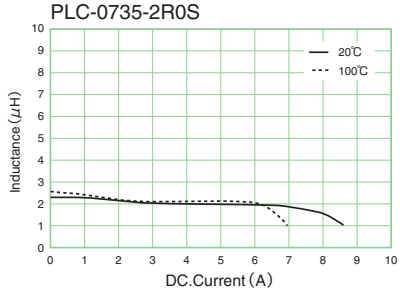
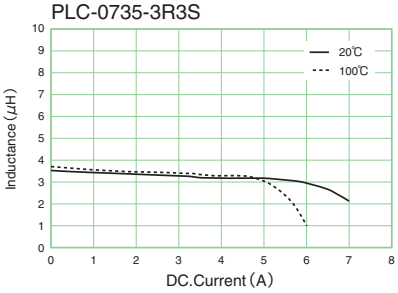
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

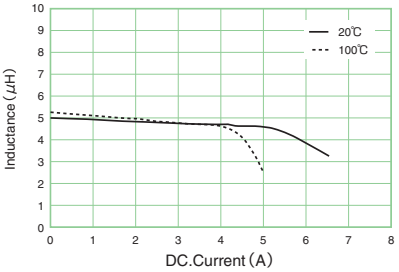
PLC-0735-2R0S



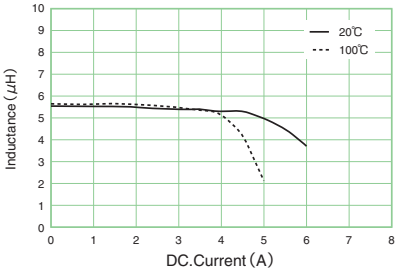

PLC-0735-3R3S



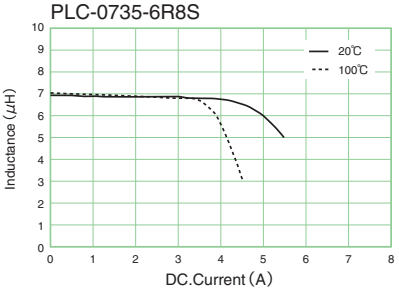

PLC-0735-4R7S



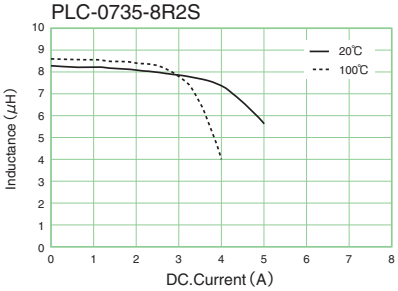

PLC-0735-5R6S



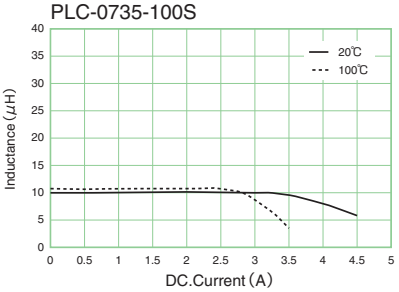

PLC-0735-6R8S



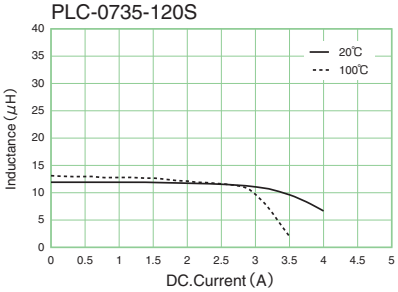

PLC-0735-8R2S




PLC-0735-100S




PLC-0735-120S



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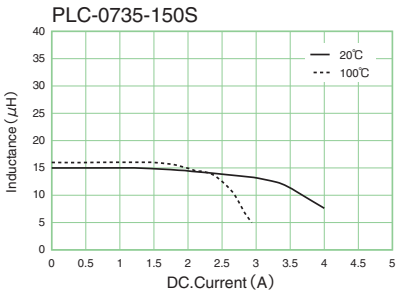
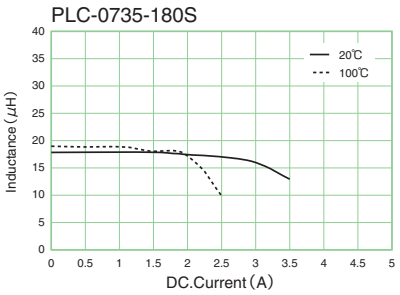
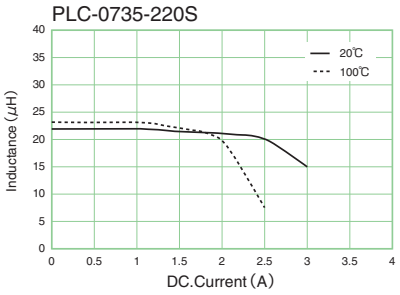
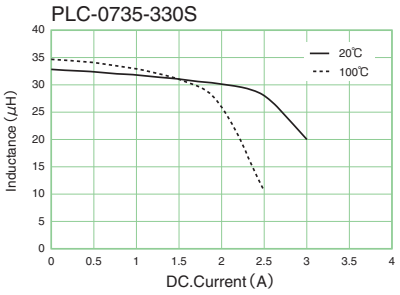
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



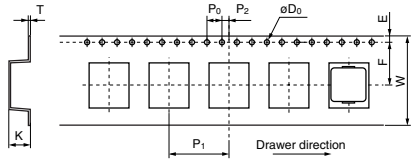




## PLC-0735 Series

**Dimensions of indented square hole plastic tape**



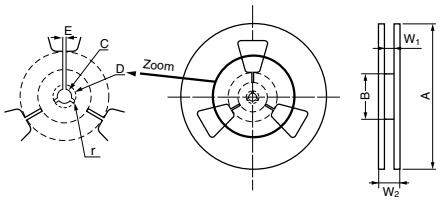

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0735 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

[mm]

| | pcs./reel |
|---|---|
| 0735 Series | 1000 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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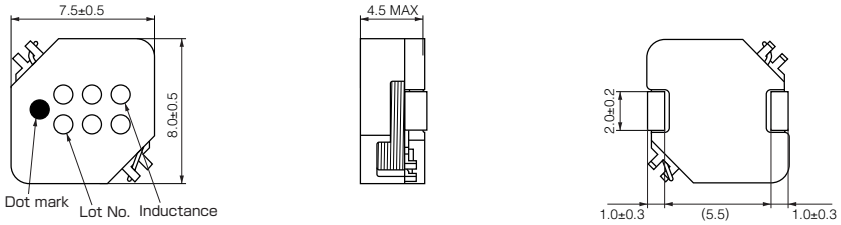
# Leadless Power Inductors PLC-0745 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | Isat (Ref.) *2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-0745-2R0S** | 2.0±30% | 19 | 5.1 | 7.0 | 6.2 |
| **PLC-0745-3R3S** | 3.3±30% | 22 | 4.8 | 5.9 | 3.8 |
| **PLC-0745-4R7S** | 4.7±30% | 34 | 4.0 | 5.0 | 3.7 |
| **PLC-0745-5R6S** | 5.6±30% | 38 | 3.8 | 4.9 | 3.6 |
| **PLC-0745-6R8S** | 6.8±30% | 40 | 3.6 | 4.4 | 3.1 |
| **PLC-0745-8R2S** | 8.2±30% | 70 | 2.8 | 3.8 | 2.7 |
| **PLC-0745-100S** | 10.0±20% | 80 | 2.6 | 3.3 | 2.4 |
| **PLC-0745-120S** | 12.0±20% | 90 | 2.4 | 3.2 | 2.3 |
| **PLC-0745-150S** | 15.0±20% | 107 | 2.2 | 2.8 | 2.0 |
| **PLC-0745-180S** | 18.0±20% | 113 | 2.1 | 2.6 | 1.9 |
| **PLC-0745-220S** | 22.0±20% | 135 | 1.9 | 2.3 | 1.7 |
| **PLC-0745-330S** | 33.0±20% | 200 | 1.7 | 1.9 | 1.3 |

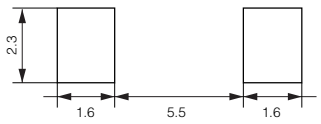
＊1 T=40K rise at rated current. ＊2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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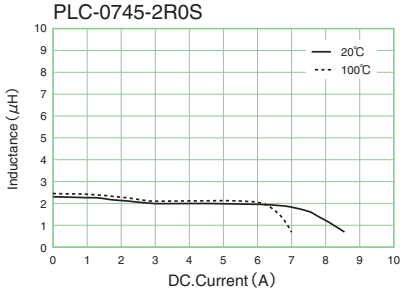
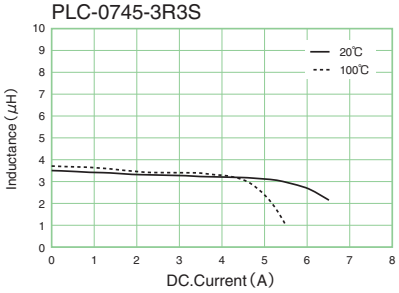
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

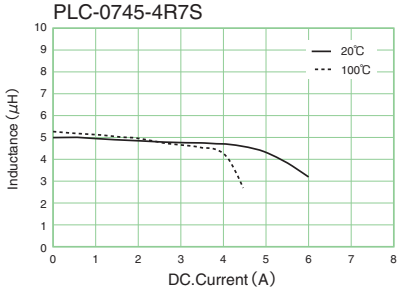
PLC-0745-2R0S



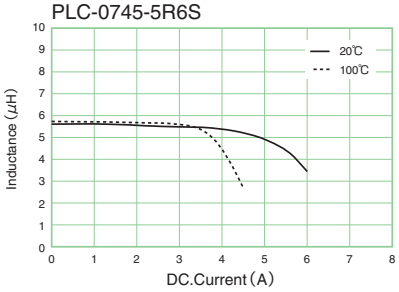

PLC-0745-3R3S



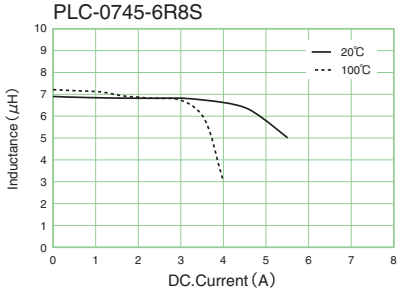

PLC-0745-4R7S



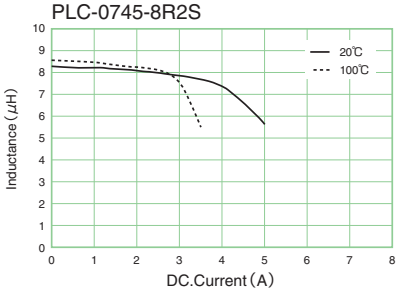

PLC-0745-5R6S



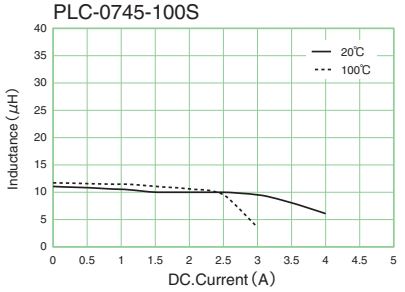

PLC-0745-6R8S



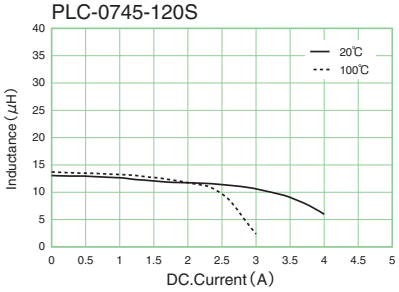

PLC-0745-8R2S




PLC-0745-100S




PLC-0745-120S






⚠

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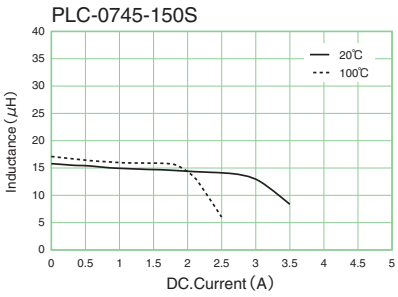
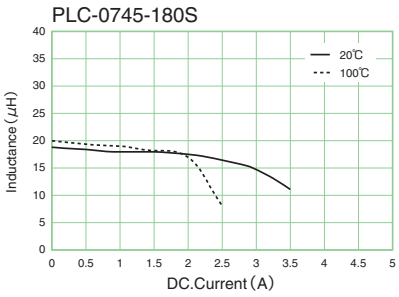
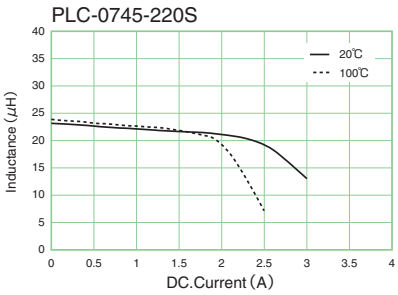
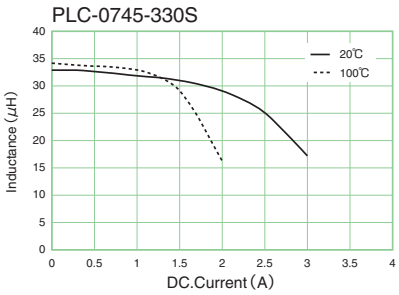
**DC-Superposed Characteristics**



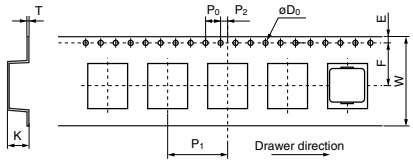




## PLC-0745 Series

**Dimensions of indented square hole plastic tape**



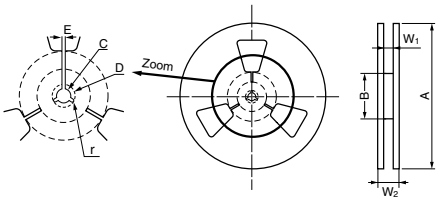

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0745 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

[mm]

| | pcs./reel |
|---|---|
| 0745 Series | 1000 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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9631PWIVOL10E1205E0

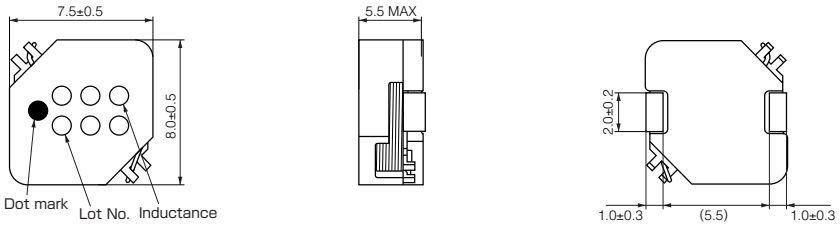
# Leadless Power Inductors PLC-0755 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | at 100℃ |
|---|---|---|---|---|---|
| **PLC-0755-2R0S** | 2.0±30% | 15 | 6.4 | 7.2 | 6.4 |
| **PLC-0755-3R3S** | 3.3±30% | 20 | 5.6 | 6.2 | 3.9 |
| **PLC-0755-4R7S** | 4.7±30% | 24 | 5.1 | 5.2 | 3.8 |
| **PLC-0755-5R6S** | 5.6±30% | 26 | 4.8 | 5.0 | 3.6 |
| **PLC-0755-6R8S** | 6.8±30% | 34 | 4.6 | 4.4 | 3.4 |
| **PLC-0755-8R2S** | 8.2±30% | 37 | 4.1 | 4.0 | 3.0 |
| **PLC-0755-100S** | 10.0±20% | 40 | 3.9 | 3.7 | 2.7 |
| **PLC-0755-120S** | 12.0±20% | 55 | 3.4 | 3.3 | 2.5 |
| **PLC-0755-150S** | 15.0±20% | 67 | 2.8 | 3.2 | 2.4 |
| **PLC-0755-180S** | 18.0±20% | 80 | 2.4 | 2.7 | 2.0 |
| **PLC-0755-220S** | 22.0±20% | 125 | 2.2 | 2.4 | 1.8 |
| **PLC-0755-330S** | 33.0±20% | 166 | 1.9 | 1.9 | 1.4 |

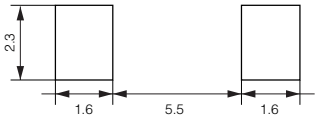
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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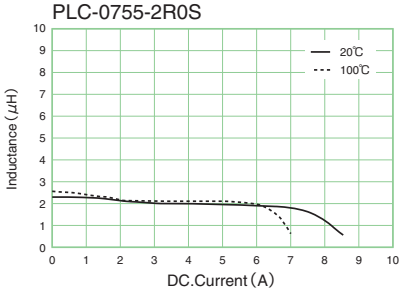
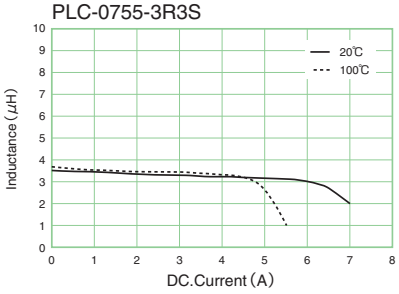
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

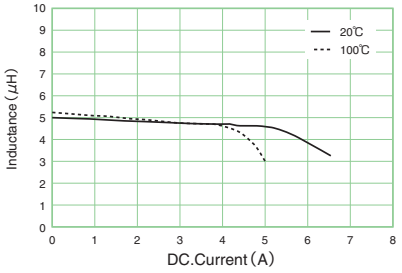
PLC-0755-2R0S



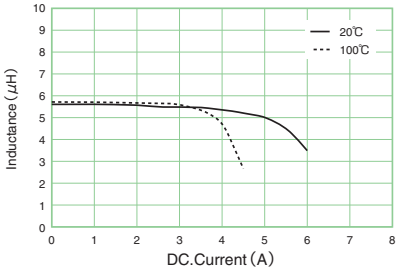

PLC-0755-3R3S



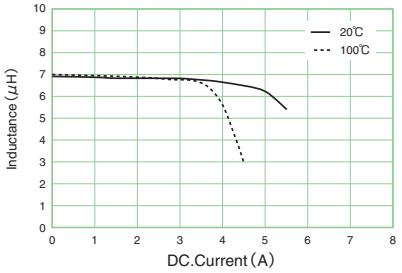

PLC-0755-4R7S



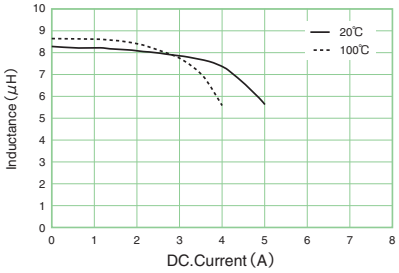

PLC-0755-5R6S



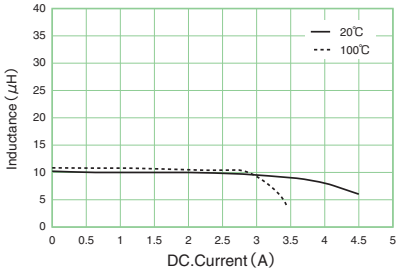

PLC-0755-6R8S



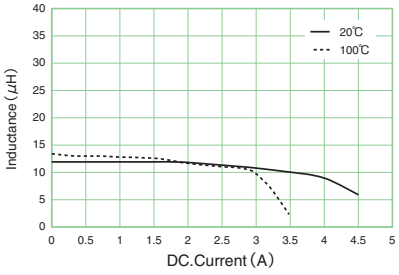

PLC-0755-8R2S




PLC-0755-100S




PLC-0755-120S



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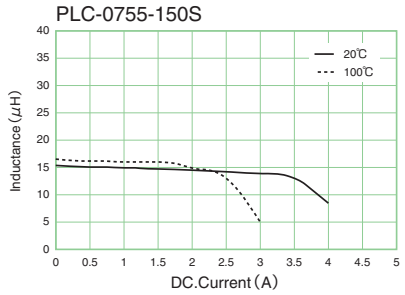
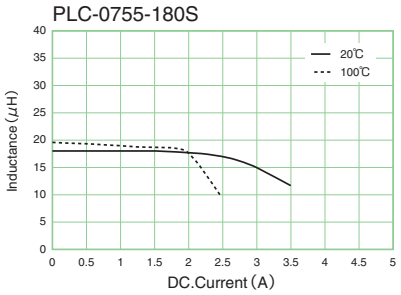
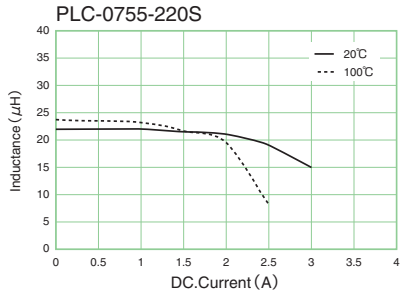
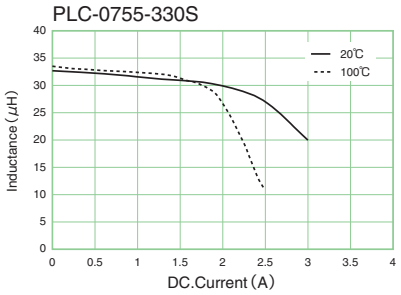
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



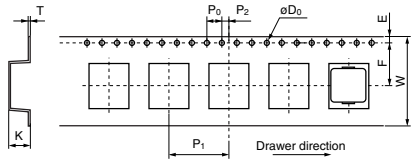




## PLC-0755 Series

**Dimensions of indented square hole plastic tape**



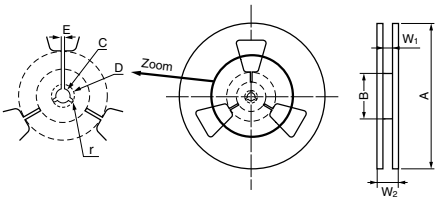

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0755 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

[mm]

| | pcs./reel |
|---|---|
| 0755 Series | 800 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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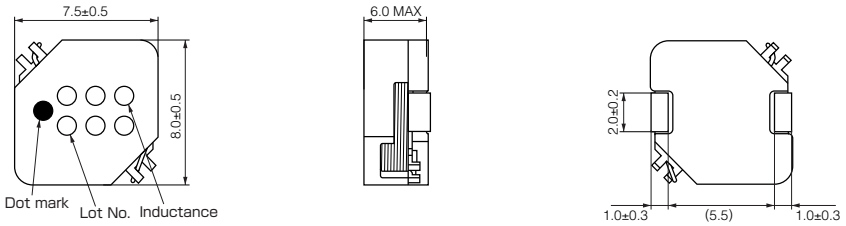
# Leadless Power Inductors PLC-0760 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | Isat (Ref.) *2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-0760-2R0S** | 2.0±30% | 14 | 6.5 | 7.0 | 5.3 |
| **PLC-0760-3R3S** | 3.3±30% | 18 | 5.8 | 5.4 | 4.1 |
| **PLC-0760-4R7S** | 4.7±30% | 21 | 5.2 | 4.6 | 3.5 |
| **PLC-0760-5R6S** | 5.6±30% | 23 | 4.9 | 4.1 | 3.1 |
| **PLC-0760-6R8S** | 6.8±30% | 31 | 4.7 | 3.9 | 3.0 |
| **PLC-0760-8R2S** | 8.2±30% | 34 | 4.4 | 3.5 | 2.5 |
| **PLC-0760-100S** | 10.0±20% | 37 | 4.1 | 3.2 | 2.4 |
| **PLC-0760-120S** | 12.0±20% | 42 | 3.6 | 2.9 | 2.1 |
| **PLC-0760-150S** | 15.0±20% | 57 | 3.1 | 2.5 | 1.8 |
| **PLC-0760-180S** | 18.0±20% | 64 | 2.9 | 2.4 | 1.7 |
| **PLC-0760-220S** | 22.0±20% | 71 | 2.7 | 2.2 | 1.6 |
| **PLC-0760-330S** | 33.0±20% | 130 | 1.9 | 1.8 | 1.3 |

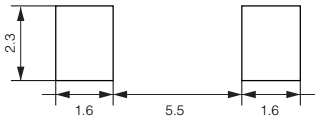
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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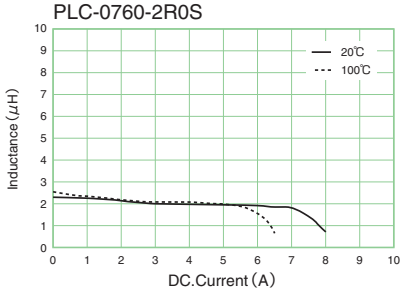
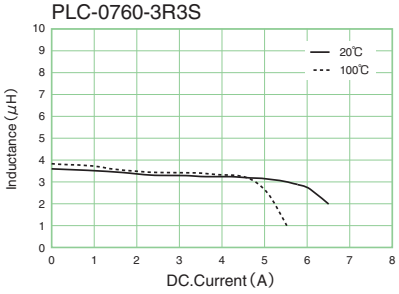
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

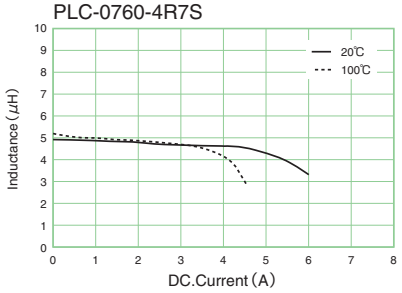
PLC-0760-2R0S



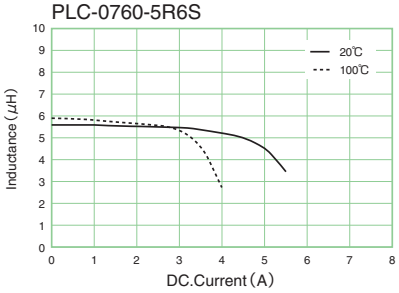

PLC-0760-3R3S



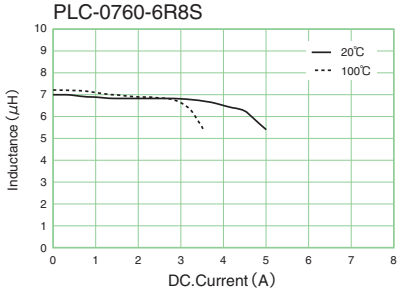

PLC-0760-4R7S



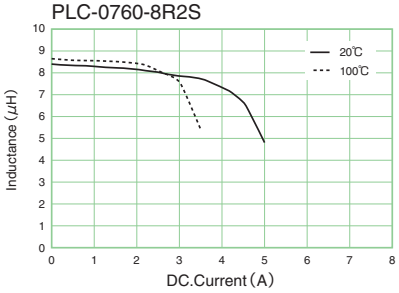

PLC-0760-5R6S



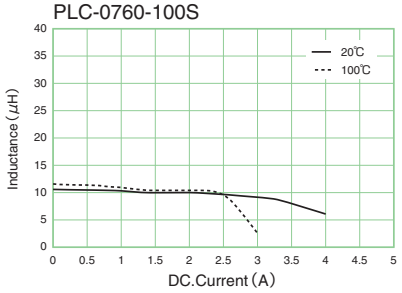

PLC-0760-6R8S



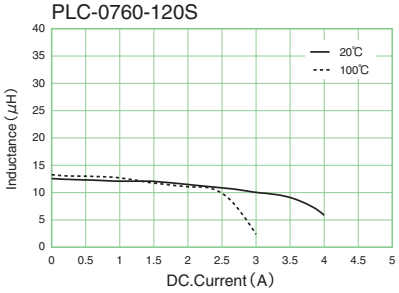

PLC-0760-8R2S




PLC-0760-100S




PLC-0760-120S



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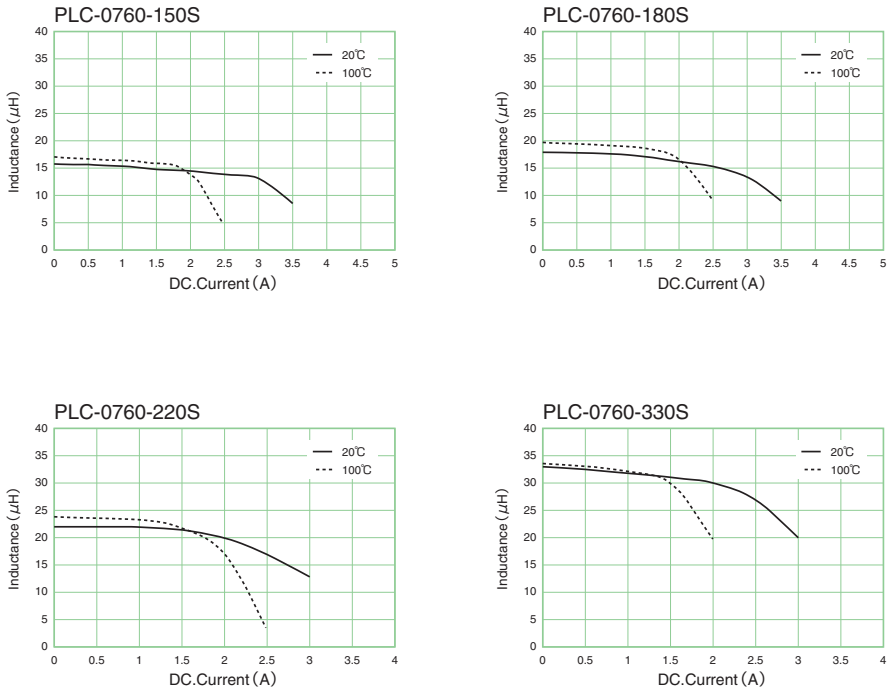
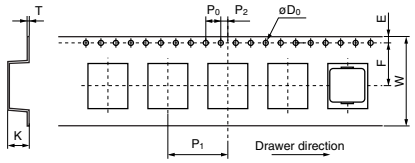
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**




## PLC-0760 Series

**Dimensions of indented square hole plastic tape**



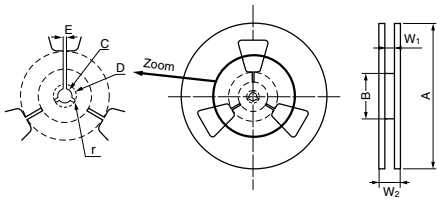

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0760 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.3 |

[mm]

| | pcs./reel |
|---|---|
| 0760 Series | 800 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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9631PWIVOL10E1205E0

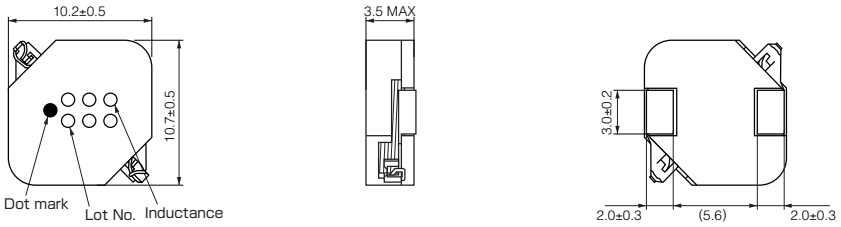
# Leadless Power Inductors PLC-1035 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms ＊1 | Isat (Ref.) ＊2 at 20℃ | Isat (Ref.) ＊2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-1035-2R0S** | 2.0±30% | 25 | 6.0 | 11.4 | 8.1 |
| **PLC-1035-3R3S** | 3.3±30% | 28 | 5.7 | 9.5 | 6.9 |
| **PLC-1035-4R7S** | 4.7±30% | 38 | 5.2 | 8.7 | 6.3 |
| **PLC-1035-5R6S** | 5.6±30% | 44 | 4.7 | 7.9 | 5.8 |
| **PLC-1035-6R8S** | 6.8±30% | 52 | 4.2 | 6.6 | 4.7 |
| **PLC-1035-8R2S** | 8.2±30% | 60 | 3.7 | 6.3 | 4.4 |
| **PLC-1035-100S** | 10.0±20% | 75 | 3.4 | 6.0 | 4.1 |
| **PLC-1035-120S** | 12.0±20% | 115 | 2.4 | 5.7 | 4.0 |
| **PLC-1035-150S** | 15.0±20% | 120 | 2.2 | 4.8 | 3.4 |
| **PLC-1035-180S** | 18.0±20% | 138 | 2.1 | 4.4 | 3.3 |
| **PLC-1035-220S** | 22.0±20% | 165 | 2.0 | 4.2 | 3.0 |
| **PLC-1035-330S** | 33.0±20% | 238 | 1.5 | 3.0 | 2.2 |

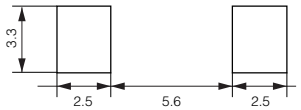
＊1 T=40K rise at rated current. ＊2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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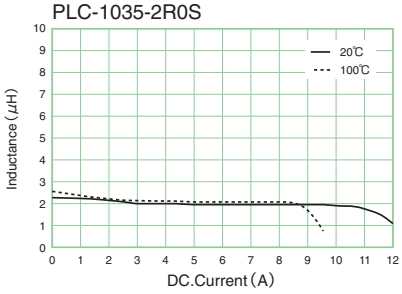
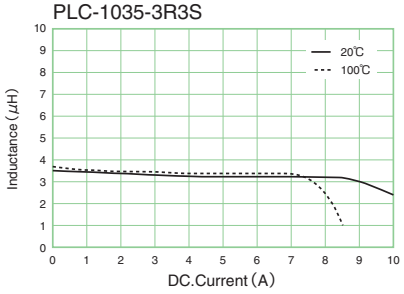
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

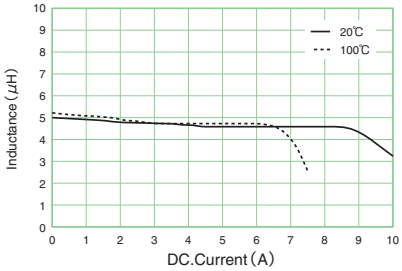
PLC-1035-2R0S



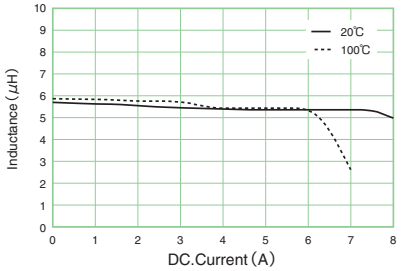

PLC-1035-3R3S



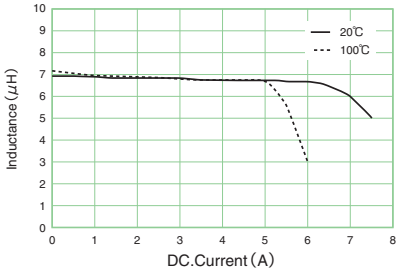

PLC-1035-4R7S



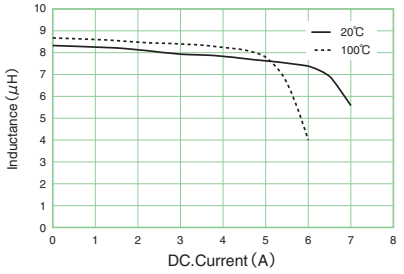

PLC-1035-5R6S



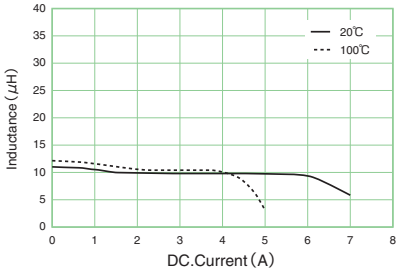

PLC-1035-6R8S



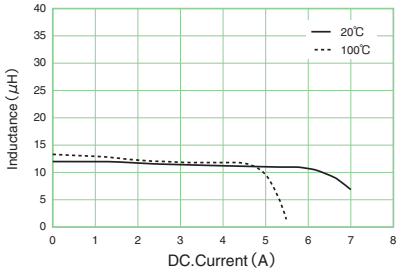

PLC-1035-8R2S




PLC-1035-100S




PLC-1035-120S



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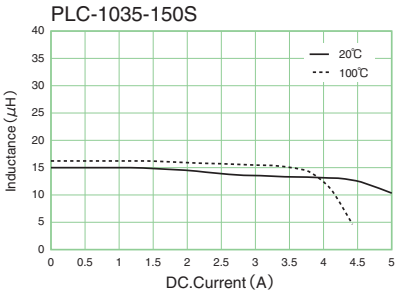
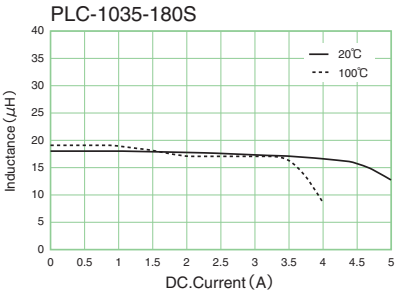
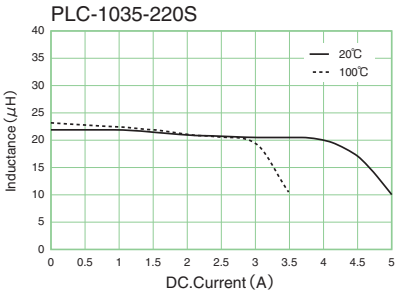
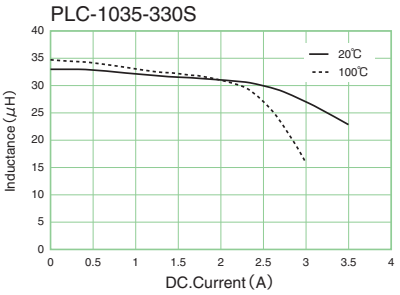
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



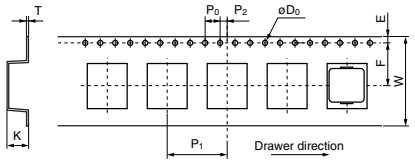




## PLC-1035 Series

**Dimensions of indented square hole plastic tape**



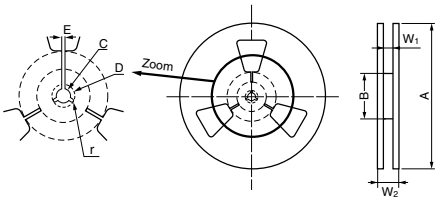

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1035 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

[mm]

| | pcs./reel |
|---|---|
| 1035 Series | 1000 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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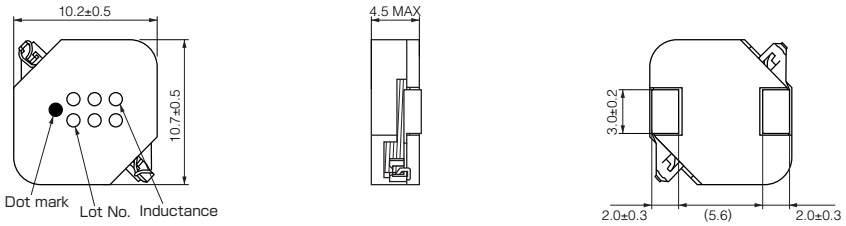
# Leadless Power Inductors PLC-1045 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | at 100℃ |
|---|---|---|---|---|---|
| **PLC-1045-2R0S** | 2.0±30% | 16 | 6.9 | 10.6 | 7.6 |
| **PLC-1045-3R3S** | 3.3±30% | 21 | 6.1 | 8.5 | 6.6 |
| **PLC-1045-4R7S** | 4.7±30% | 23 | 5.5 | 6.3 | 4.8 |
| **PLC-1045-5R6S** | 5.6±30% | 25 | 5.1 | 5.9 | 4.4 |
| **PLC-1045-6R8S** | 6.8±30% | 28 | 4.7 | 5.6 | 4.3 |
| **PLC-1045-8R2S** | 8.2±30% | 36 | 4.0 | 5.2 | 4.2 |
| **PLC-1045-100S** | 10.0±20% | 41 | 3.6 | 4.9 | 3.9 |
| **PLC-1045-120S** | 12.0±20% | 50 | 3.4 | 4.7 | 3.6 |
| **PLC-1045-150S** | 15.0±20% | 65 | 3.2 | 4.1 | 3.1 |
| **PLC-1045-180S** | 18.0±20% | 70 | 3.0 | 3.4 | 2.7 |
| **PLC-1045-220S** | 22.0±20% | 95 | 2.9 | 3.3 | 2.4 |
| **PLC-1045-330S** | 33.0±20% | 165 | 2.2 | 2.7 | 2.0 |

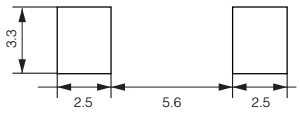
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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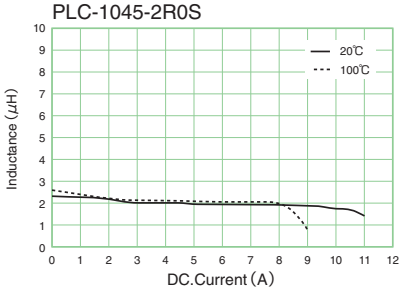
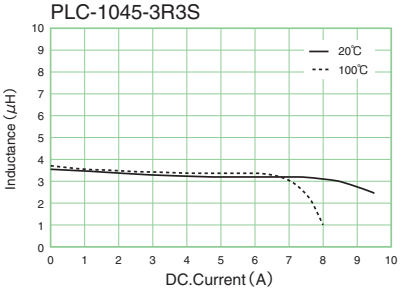
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

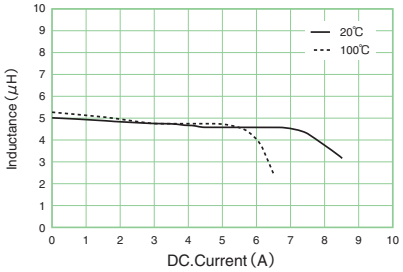
PLC-1045-2R0S



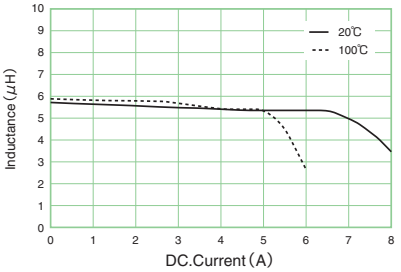

PLC-1045-3R3S



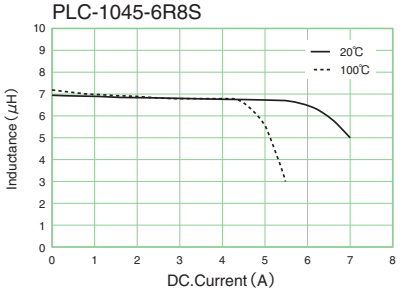

PLC-1045-4R7S



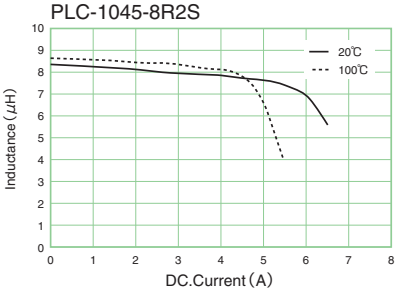

PLC-1045-5R6S



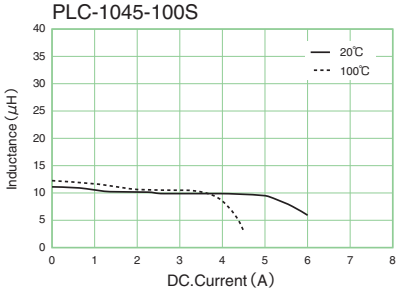

PLC-1045-6R8S



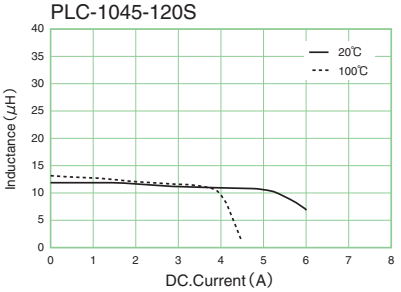

PLC-1045-8R2S




PLC-1045-100S




PLC-1045-120S



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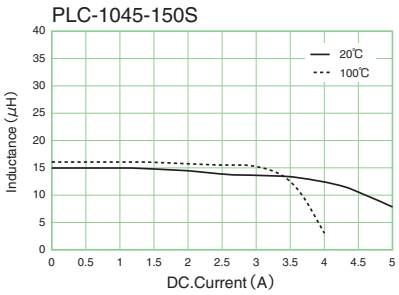
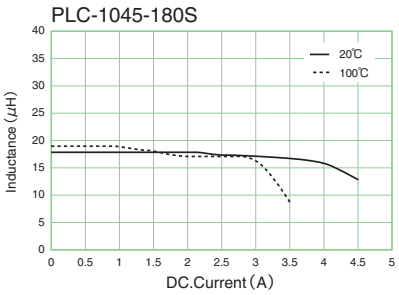
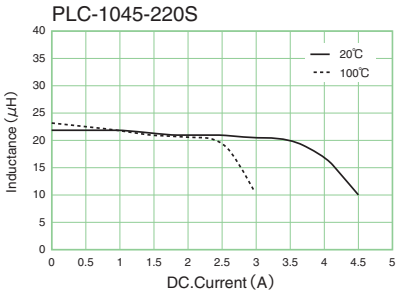
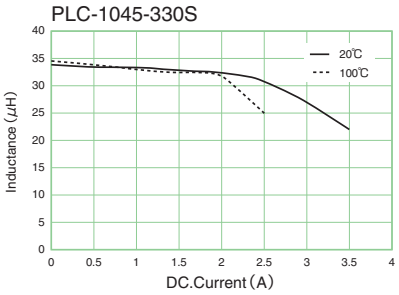
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



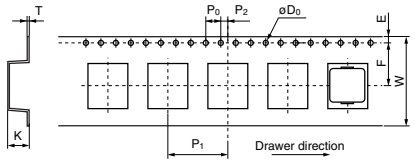




## PLC-1045 Series

**Dimensions of indented square hole plastic tape**



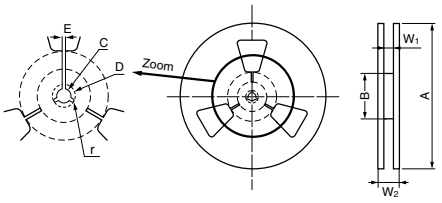

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1045 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

[mm]

| | pcs./reel |
|---|---|
| 1045 Series | 1000 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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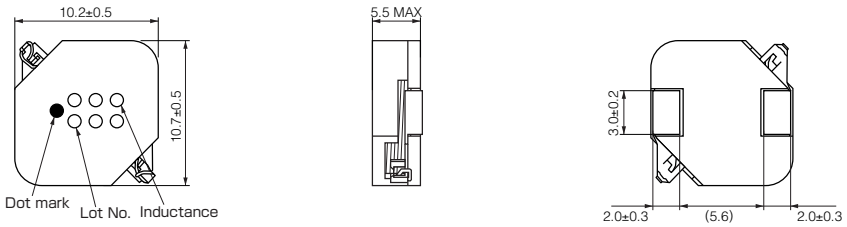
# Leadless Power Inductors PLC-1055 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | Isat (Ref.) *2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-1055-2R0S** | 2.0±30% | 13 | 8.2 | 13.6 | 11.0 |
| **PLC-1055-3R3S** | 3.3±30% | 18 | 7.2 | 9.6 | 7.0 |
| **PLC-1055-4R7S** | 4.7±30% | 21 | 5.8 | 8.7 | 6.6 |
| **PLC-1055-5R6S** | 5.6±30% | 24 | 5.7 | 8.3 | 6.5 |
| **PLC-1055-6R8S** | 6.8±30% | 26 | 5.1 | 8.2 | 6.1 |
| **PLC-1055-8R2S** | 8.2±30% | 33 | 4.7 | 7.4 | 5.5 |
| **PLC-1055-100S** | 10.0±20% | 43 | 4.0 | 6.7 | 4.9 |
| **PLC-1055-120S** | 12.0±20% | 46 | 3.8 | 5.8 | 4.2 |
| **PLC-1055-150S** | 15.0±20% | 50 | 3.5 | 4.9 | 3.5 |
| **PLC-1055-180S** | 18.0±20% | 54 | 3.4 | 4.5 | 3.4 |
| **PLC-1055-220S** | 22.0±20% | 62 | 3.3 | 4.2 | 3.1 |
| **PLC-1055-330S** | 33.0±20% | 110 | 2.7 | 3.1 | 2.3 |

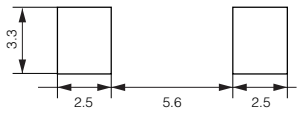
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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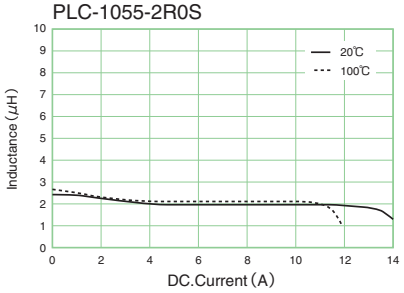
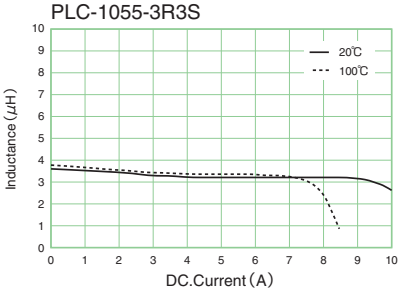
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

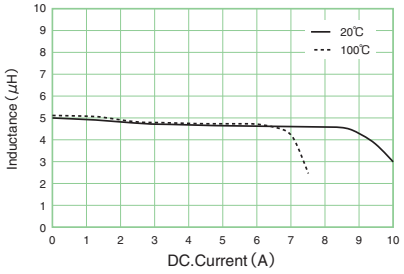
PLC-1055-2R0S



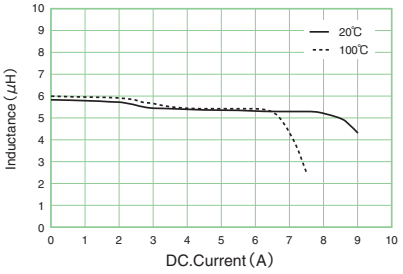

PLC-1055-3R3S



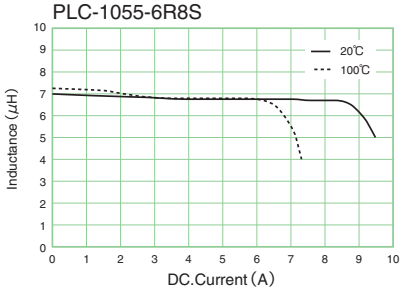

PLC-1055-4R7S



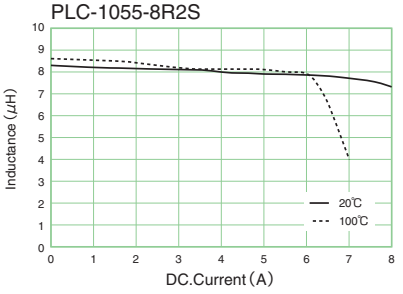

PLC-1055-5R6S



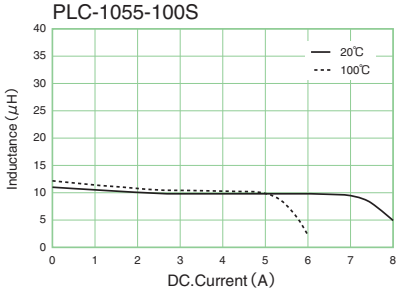

PLC-1055-6R8S



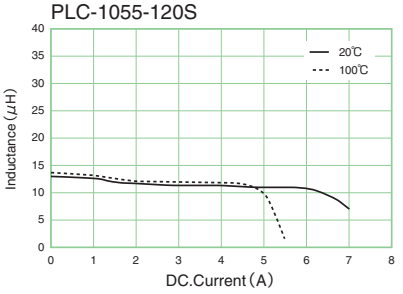

PLC-1055-8R2S




PLC-1055-100S




PLC-1055-120S






⚠
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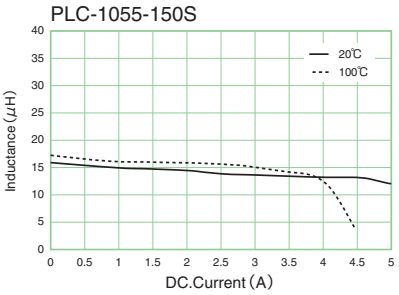
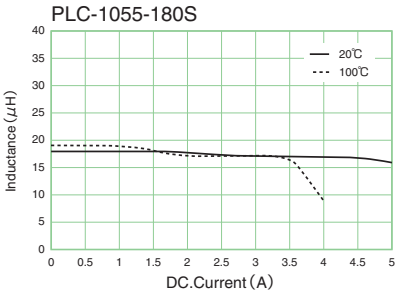
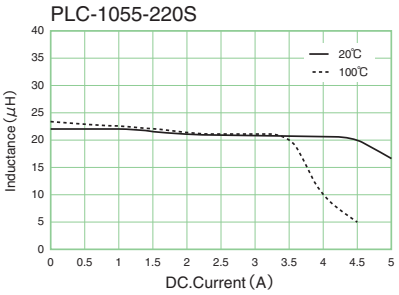
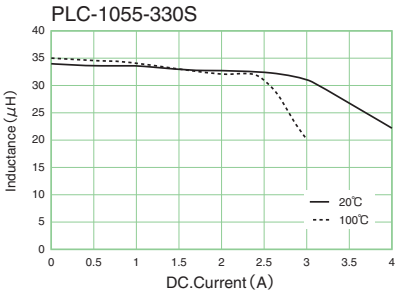
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



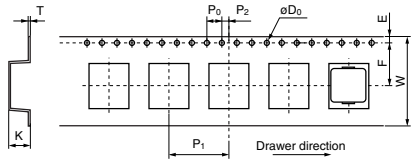




## PLC-1055 Series

**Dimensions of indented square hole plastic tape**



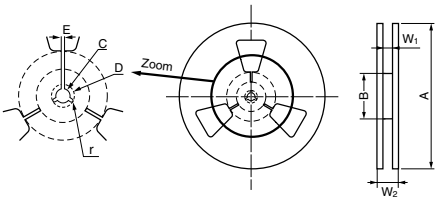

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1055 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

[mm]

| | pcs./reel |
|---|---|
| 1055 Series | 800 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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9631PWIVOL10E1205E0

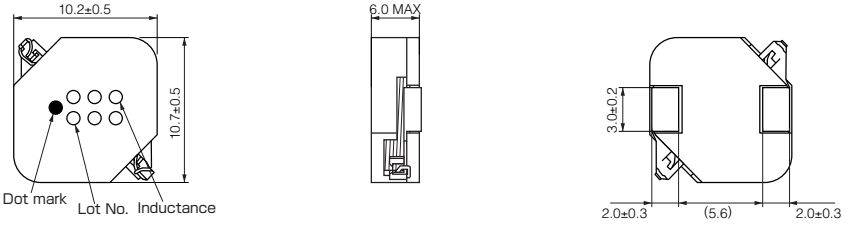
# Leadless Power Inductors PLC-1060 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | at 100℃ |
|---|---|---|---|---|---|
| **PLC-1060-2R0S** | 2.0±30% | 16 | 6.7 | 15.7 | 11.9 |
| **PLC-1060-3R3S** | 3.3±30% | 19 | 6.2 | 11.2 | 8.0 |
| **PLC-1060-4R7S** | 4.7±30% | 22 | 5.7 | 8.8 | 6.7 |
| **PLC-1060-5R6S** | 5.6±30% | 24 | 5.5 | 8.4 | 6.6 |
| **PLC-1060-6R8S** | 6.8±30% | 27 | 4.8 | 8.3 | 6.2 |
| **PLC-1060-8R2S** | 8.2±30% | 34 | 4.6 | 7.5 | 5.6 |
| **PLC-1060-100S** | 10.0±20% | 43 | 3.9 | 7.0 | 5.1 |
| **PLC-1060-120S** | 12.0±20% | 47 | 3.7 | 5.9 | 4.6 |
| **PLC-1060-150S** | 15.0±20% | 51 | 3.5 | 5.4 | 4.2 |
| **PLC-1060-180S** | 18.0±20% | 58 | 3.3 | 4.9 | 3.7 |
| **PLC-1060-220S** | 22.0±20% | 65 | 3.0 | 4.7 | 3.5 |
| **PLC-1060-330S** | 33.0±20% | 96 | 2.3 | 3.9 | 2.9 |

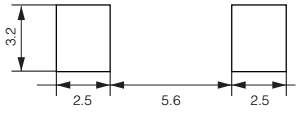
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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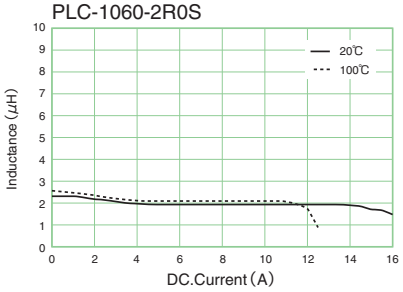
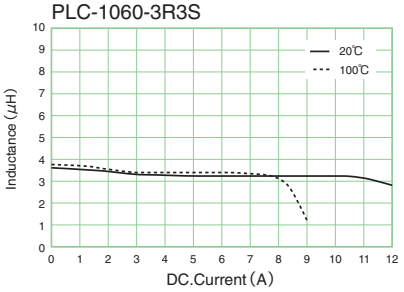
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

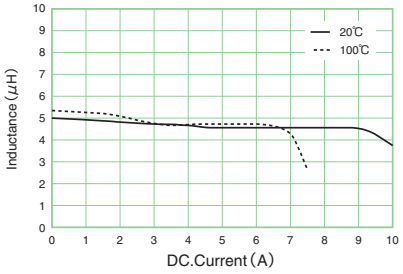
PLC-1060-2R0S



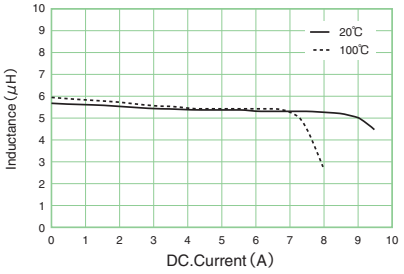

PLC-1060-3R3S



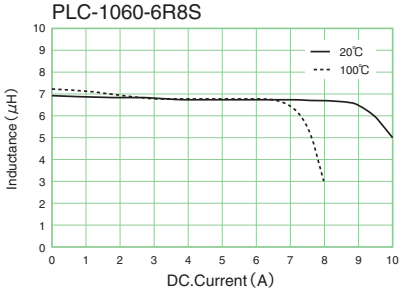

PLC-1060-4R7S



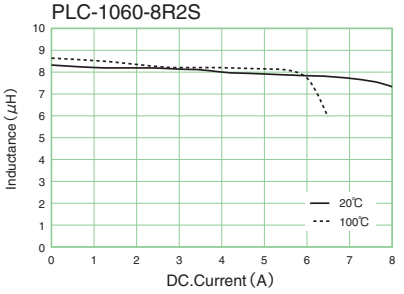

PLC-1060-5R6S



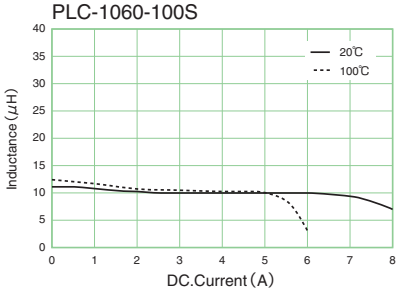

PLC-1060-6R8S



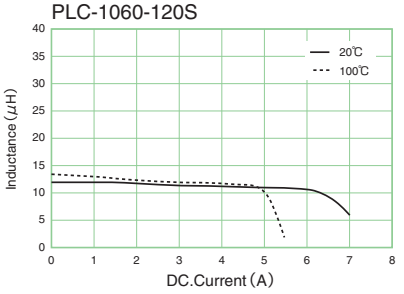

PLC-1060-8R2S




PLC-1060-100S




PLC-1060-120S



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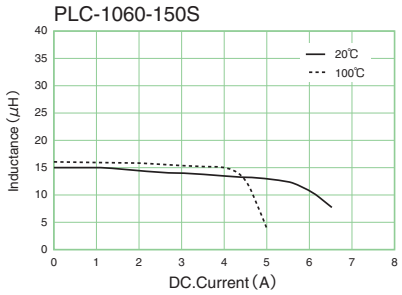
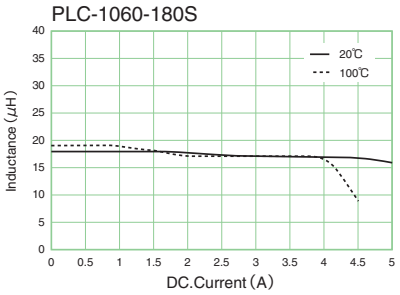
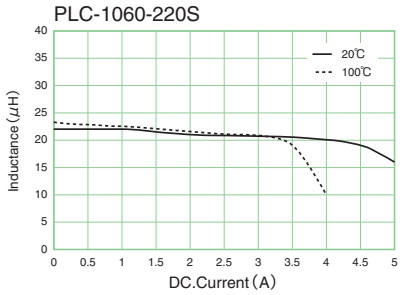
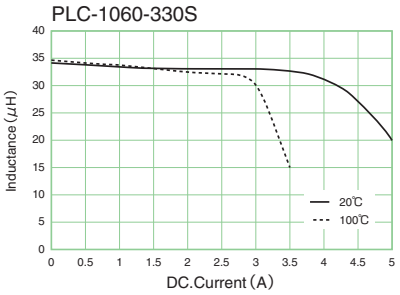
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



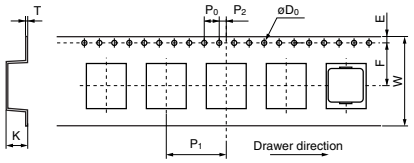




## PLC-1060 Series

**Dimensions of indented square hole plastic tape**



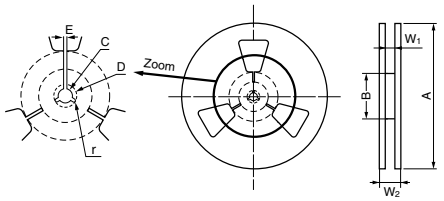

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1060 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.3 |

[mm]

| | pcs./reel |
|---|---|
| 1060 Series | 800 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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9631PWIVOL10E1205E0

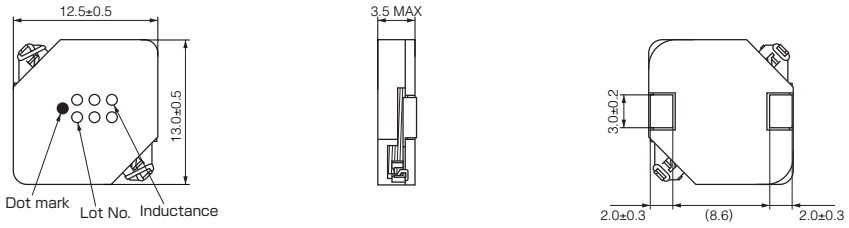
# Leadless Power Inductors PLC-1235 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms *1 | Isat (Ref.) *2 at 20℃ | Isat (Ref.) *2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-1235-2R0S** | 2.0±30% | 15 | 6.7 | 12.3 | 9.1 |
| **PLC-1235-3R3S** | 3.3±30% | 19 | 6.0 | 9.6 | 7.1 |
| **PLC-1235-4R7S** | 4.7±30% | 27 | 5.4 | 8.5 | 6.5 |
| **PLC-1235-5R6S** | 5.6±30% | 35 | 4.5 | 7.7 | 6.0 |
| **PLC-1235-6R8S** | 6.8±30% | 39 | 4.3 | 6.7 | 5.1 |
| **PLC-1235-8R2S** | 8.2±30% | 53 | 3.6 | 6.2 | 4.6 |
| **PLC-1235-100S** | 10.0±20% | 58 | 3.5 | 6.0 | 4.5 |
| **PLC-1235-120S** | 12.0±20% | 65 | 3.2 | 5.9 | 4.4 |
| **PLC-1235-150S** | 15.0±20% | 77 | 3.1 | 5.4 | 4.0 |
| **PLC-1235-180S** | 18.0±20% | 120 | 2.2 | 4.8 | 3.3 |
| **PLC-1235-220S** | 22.0±20% | 140 | 2.1 | 4.3 | 3.0 |
| **PLC-1235-330S** | 33.0±20% | 170 | 1.8 | 3.3 | 2.5 |

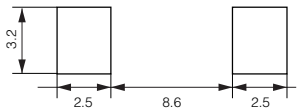
＊1 T= 40K rise at rated current. ＊2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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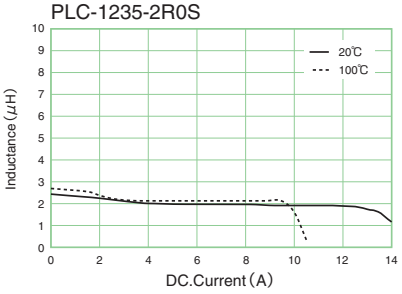
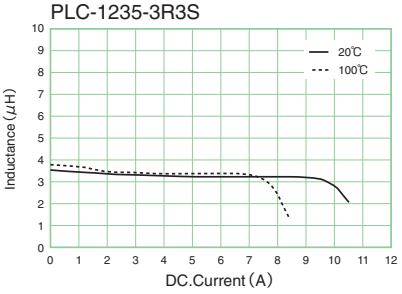
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

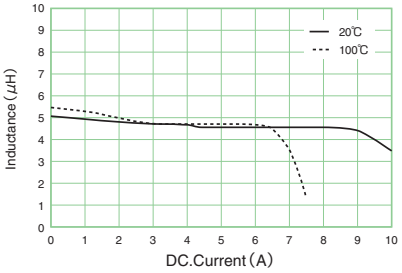
PLC-1235-2R0S



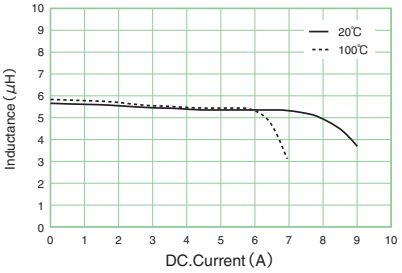

PLC-1235-3R3S



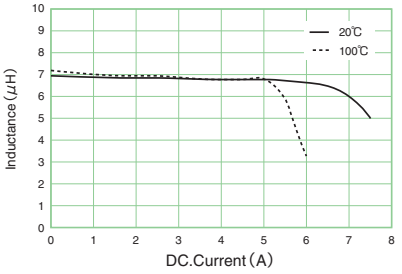

PLC-1235-4R7S



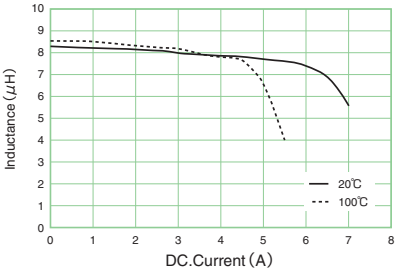

PLC-1235-5R6S



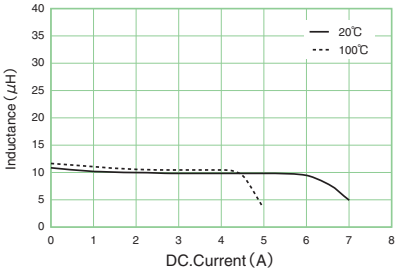

PLC-1235-6R8S



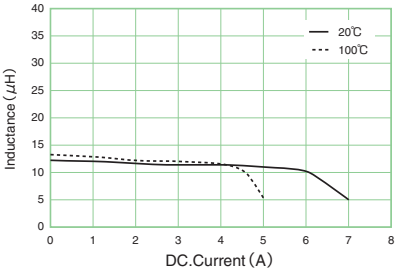

PLC-1235-8R2S




PLC-1235-100S




PLC-1235-120S



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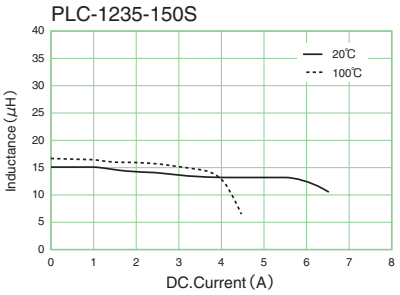
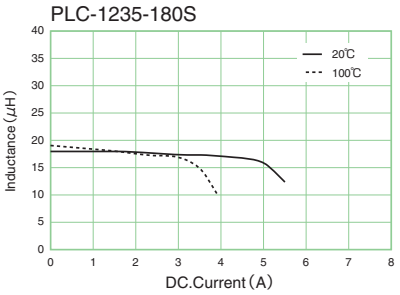
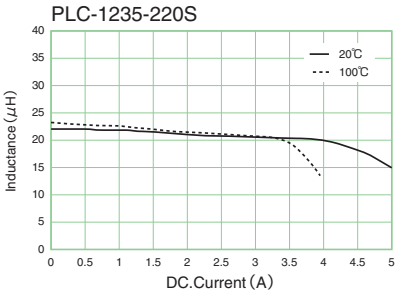
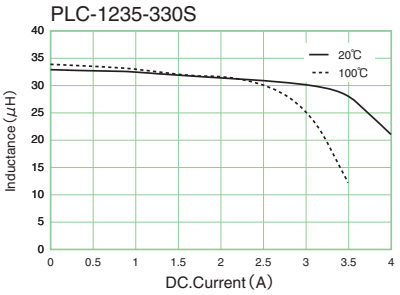
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



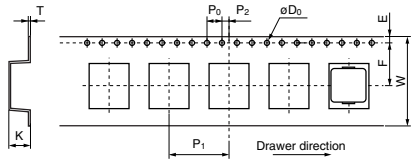




## PLC-1235 Series

**Dimensions of indented square hole plastic tape**



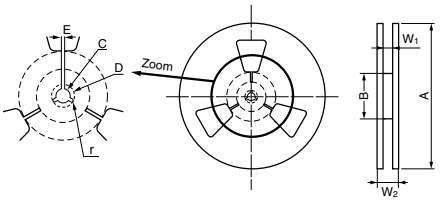

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1235 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

[mm]

| | pcs./reel |
|---|---|
| 1235 Series | 700 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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9631PWIVOL10E1205E0

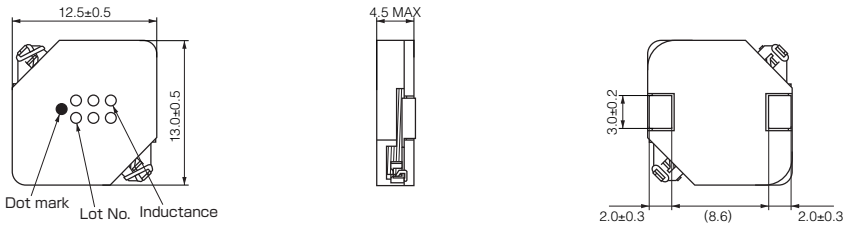
# Leadless Power Inductors PLC-1245 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms ＊1 | Isat (Ref.) ＊2 at 20℃ | at 100℃ |
|---|---|---|---|---|---|
| **PLC-1245-2R0S** | 2.0±30% | 13 | 7.4 | 12.4 | 9.2 |
| **PLC-1245-3R3S** | 3.3±30% | 16 | 6.7 | 9.7 | 7.2 |
| **PLC-1245-4R7S** | 4.7±30% | 22 | 6.2 | 8.7 | 6.8 |
| **PLC-1245-5R6S** | 5.6±30% | 25 | 6.1 | 8.2 | 6.1 |
| **PLC-1245-6R8S** | 6.8±30% | 29 | 5.3 | 7.2 | 5.3 |
| **PLC-1245-8R2S** | 8.2±30% | 31 | 5.0 | 6.9 | 5.2 |
| **PLC-1245-100S** | 10.0±20% | 38 | 4.7 | 6.3 | 4.5 |
| **PLC-1245-120S** | 12.0±20% | 42 | 4.0 | 6.0 | 4.4 |
| **PLC-1245-150S** | 15.0±20% | 47 | 3.7 | 5.5 | 4.1 |
| **PLC-1245-180S** | 18.0±20% | 49 | 3.5 | 5.1 | 3.4 |
| **PLC-1245-220S** | 22.0±20% | 66 | 3.2 | 4.4 | 3.1 |
| **PLC-1245-330S** | 33.0±20% | 80 | 2.9 | 3.4 | 2.6 |

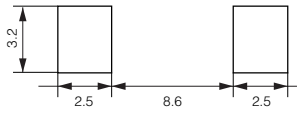
＊1 T=40K rise at rated current. ＊2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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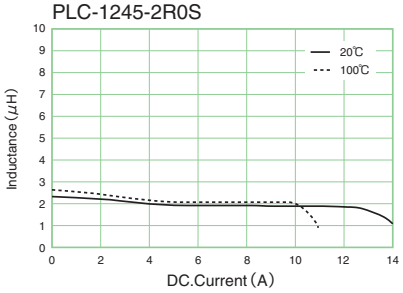
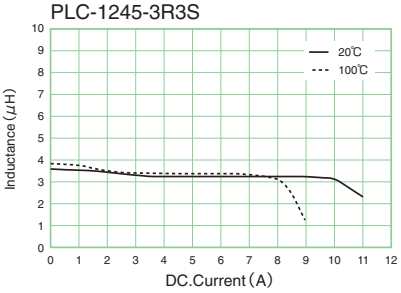
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

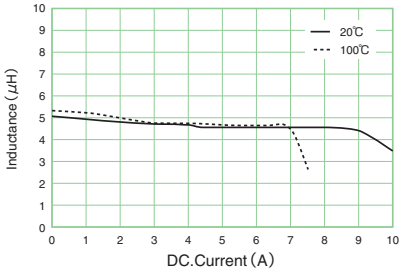
PLC-1245-2R0S



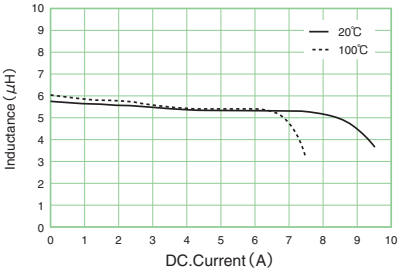

PLC-1245-3R3S



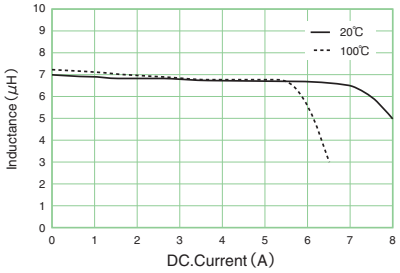

PLC-1245-4R7S



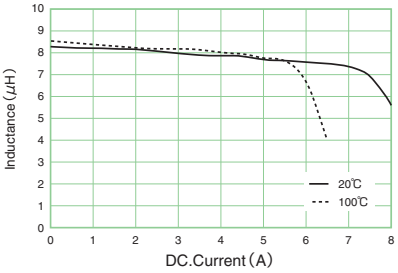

PLC-1245-5R6S



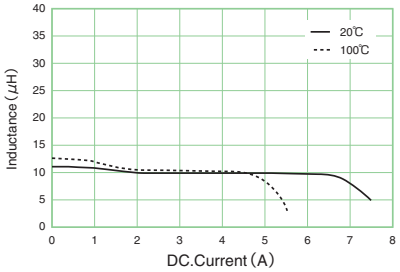

PLC-1245-6R8S



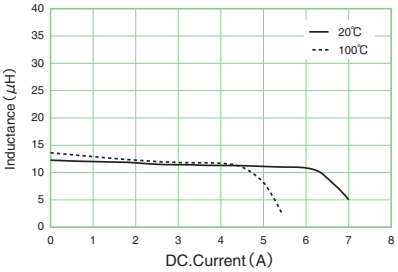

PLC-1245-8R2S




PLC-1245-100S




PLC-1245-120S



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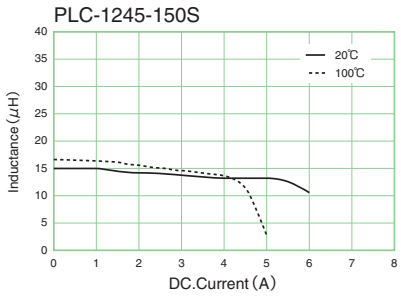
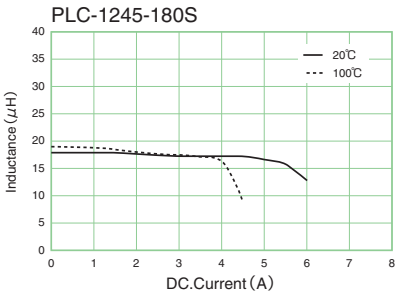
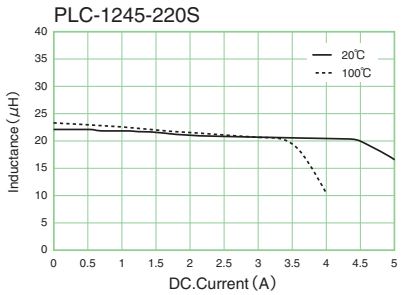
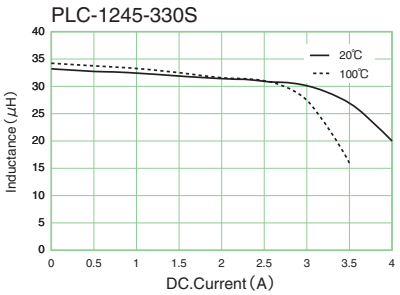
**DC-Superposed Characteristics**



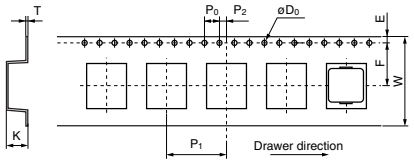




## PLC-1245 Series

**Dimensions of indented square hole plastic tape**



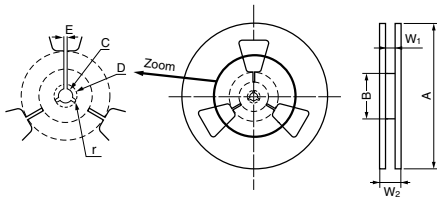

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1245 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

[mm]

| | pcs./reel |
|---|---|
| 1245 Series | 700 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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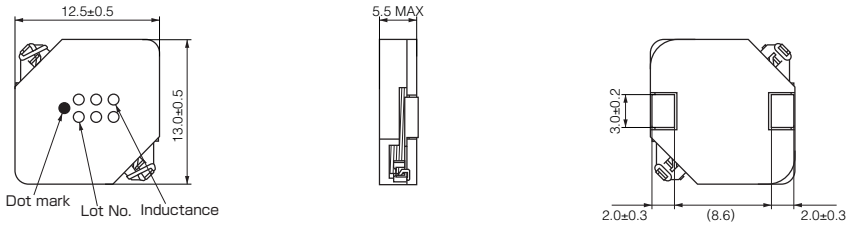
# Leadless Power Inductors PLC-1255 Series

## [RoHS Compliant]

| Model | Inductance at 100kHz, 1mA (μH) | DC resistance RDC (mΩ) max. | Rated current (A) Irms ＊1 | Isat (Ref.) ＊2 at 20℃ | Isat (Ref.) ＊2 at 100℃ |
|---|---|---|---|---|---|
| **PLC-1255-2R0S** | 2.0±30% | 12 | 7.8 | 13.3 | 9.6 |
| **PLC-1255-3R3S** | 3.3±30% | 13 | 7.5 | 10.4 | 7.5 |
| **PLC-1255-4R7S** | 4.7±30% | 15 | 7.4 | 9.5 | 7.3 |
| **PLC-1255-5R6S** | 5.6±30% | 17 | 7.2 | 9.1 | 6.8 |
| **PLC-1255-6R8S** | 6.8±30% | 19 | 6.8 | 8.4 | 6.0 |
| **PLC-1255-8R2S** | 8.2±30% | 24 | 6.1 | 7.3 | 5.4 |
| **PLC-1255-100S** | 10.0±20% | 25 | 5.8 | 6.6 | 4.6 |
| **PLC-1255-120S** | 12.0±20% | 27 | 5.2 | 6.3 | 4.5 |
| **PLC-1255-150S** | 15.0±20% | 38 | 4.4 | 5.8 | 4.2 |
| **PLC-1255-180S** | 18.0±20% | 44 | 4.2 | 5.7 | 4.1 |
| **PLC-1255-220S** | 22.0±20% | 47 | 3.9 | 4.6 | 3.4 |
| **PLC-1255-330S** | 33.0±20% | 70 | 3.4 | 4.0 | 2.9 |

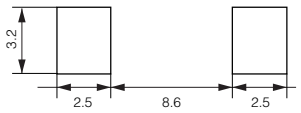
＊1 T=40K rise at rated current. ＊2 Inductance drop 30% at rated current.
●Operating temperature range : −20to+120℃(Including self-temperature rise)

### Shape and Dimensions




[mm]

### Recommended Land Pattern




[mm]



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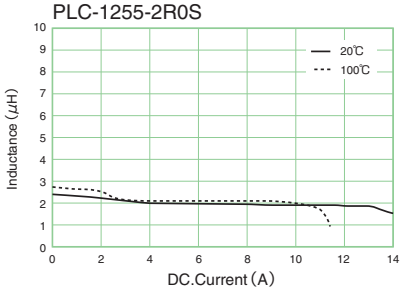
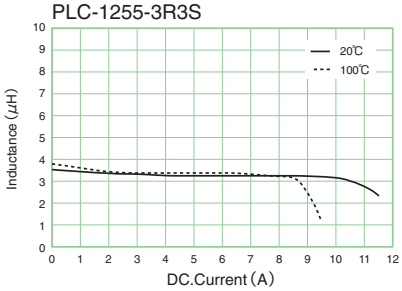
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**

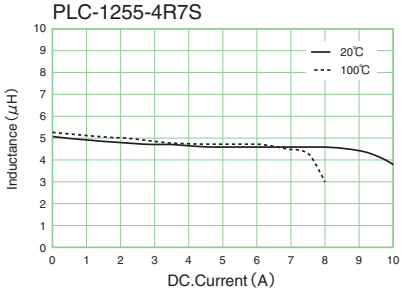
PLC-1255-2R0S



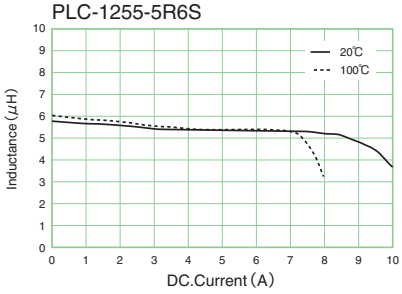

PLC-1255-3R3S



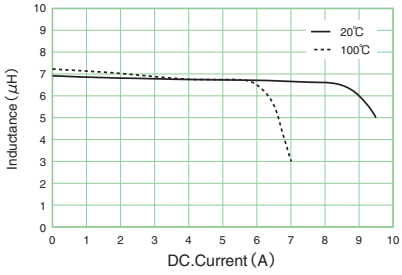

PLC-1255-4R7S



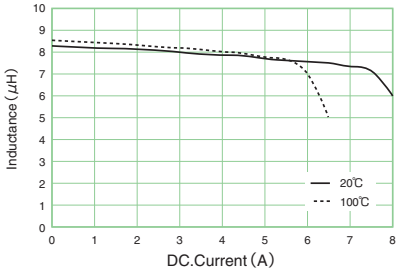

PLC-1255-5R6S



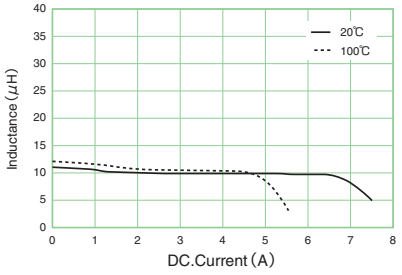

PLC-1255-6R8S



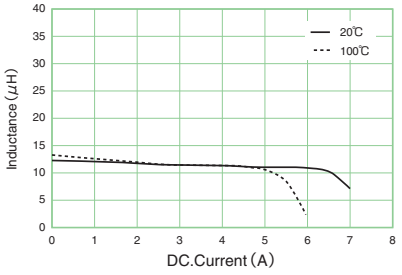

PLC-1255-8R2S




PLC-1255-100S




PLC-1255-120S



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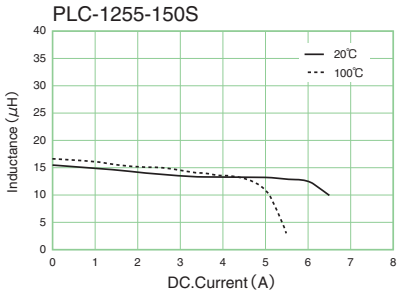
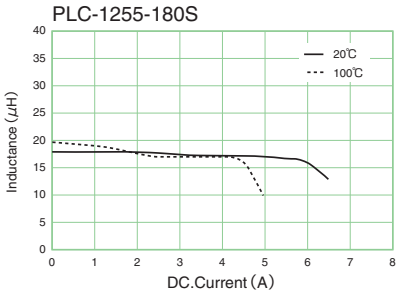
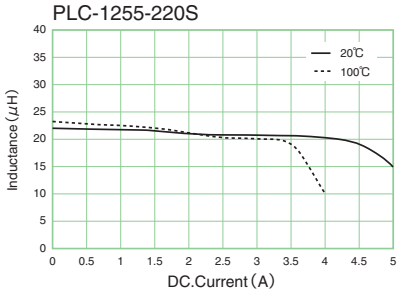
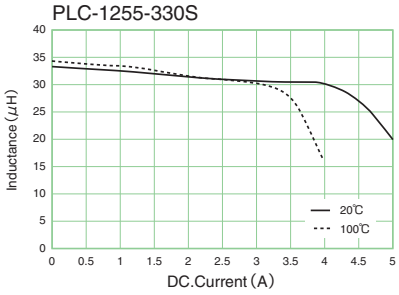
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**



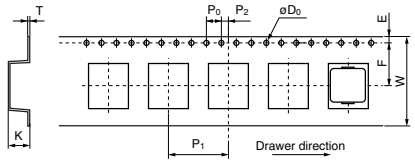




## PLC-1255 Series

**Dimensions of indented square hole plastic tape**



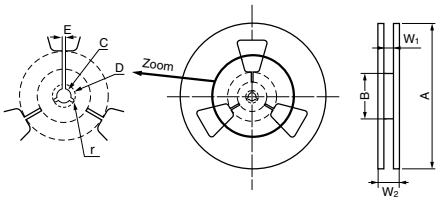

[mm]

| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|---|---|---|---|---|---|---|---|---|---|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1255 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

[mm]

| | pcs./reel |
|---|---|
| 1255 Series | 700 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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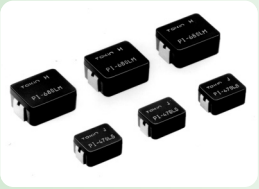
# Leadless Power Inductors P·I Series
## 〈Applicable for Automotives〉



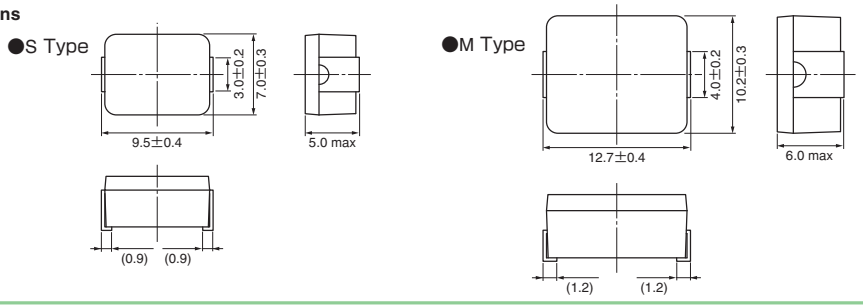
• Precautions (see page 82)

●P·I Series

| Type | Model | Inductance (μH) at 100kHz | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|---|
| **Choke coil** (9×7×5) | **P·I-470LSF** | 47±25% | 0.46 | 0.7 |
| | **P·I-220LSF** | 22±25% | 0.30 | 0.9 |
| | **P·I-120LSF** | 12±25% | 0.20 | 1.0 |
| | **P·I-5R6LSF** | 5.6±30% | 0.10 | 1.6 |
| | **P·I-3R3LSF** | 3.3±30% | 0.08 | 2.0 |
| **Choke coil** (12×10×6) | **P·I-221LMF** | 220±25% | 1.25 | 0.5 |
| | **P·I-151LMF** | 150±25% | 0.95 | 0.6 |
| | **P·I-121LMF** | 125±25% | 0.60 | 0.8 |
| | **P·I-680LMF** | 68±25% | 0.45 | 0.8 |
| | **P·I-330LMF** | 33±25% | 0.30 | 1.0 |
| | **P·I-180LMF** | 18±25% | 0.15 | 1.7 |
| | **P·I-8R2LMF** | 8.2±30% | 0.10 | 2.3 |
| **Noise suppressor** (9×7×5) | **P·I-820ZSF** | 82±25% | 0.48 | 0.6 |
| | **P·I-470ZSF** | 47±25% | 0.30 | 0.7 |
| | **P·I-390ZSF** | 39±25% | 0.31 | 0.8 |
| | **P·I-180ZSF** | 18±25% | 0.20 | 1.0 |
| | **P·I-100ZSF** | 10±25% | 0.12 | 1.5 |
| | **P·I-4R7ZSF** | 4.7±30% | 0.08 | 2.0 |
| | **P·I-1R2ZSF** | 1.2±30% | 0.05 | 3.0 |
| **Noise suppressor** (12×10×6) | **P·I-331ZMF** | 330±25% | 1.40 | 0.5 |
| | **P·I-181ZMF** | 180±25% | 0.85 | 0.6 |
| | **P·I-121ZMF** | 120±25% | 0.48 | 0.8 |
| | **P·I-560ZMF** | 56±25% | 0.35 | 1.0 |
| | **P·I-270ZMF** | 27±25% | 0.15 | 1.7 |
| | **P·I-150ZMF** | 15±25% | 0.10 | 2.2 |
| | **P·I-2R7ZMF** | 2.7±30% | 0.07 | 2.9 |

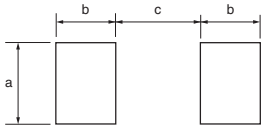
●Operating temperature range: −40 to +120℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




| Type | a | b | c |
|---|---|---|---|
| S | 5.0 | 5.0 | 6.0 |
| M | 6.0 | 5.0 | 9.0 |

[mm]



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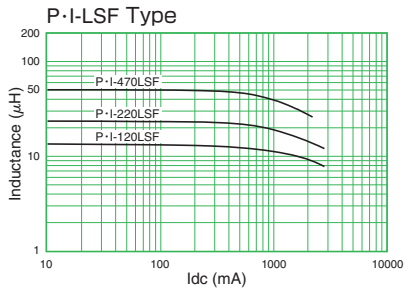
9631PWIVOL10E1205E0

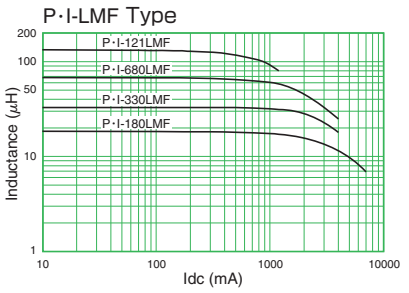
### Numbering System

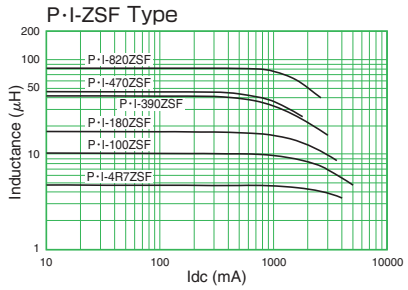
**P·I -** ○○○ ○ ○ △△
① ② ③ ④ ⑤

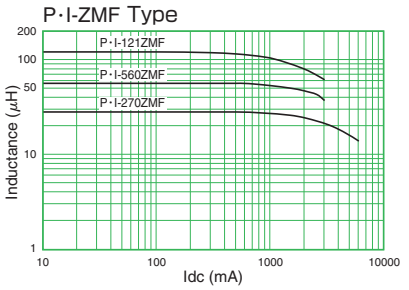
① Series
② Inductance 120:12μH, 121:120μH, 4R7:4.7μH
③ Type L : Choke Coils, Z : Noise suppressor
④ Dimensions
⑤ NEC TOKIN control number

### DC-Superposed Characteristics



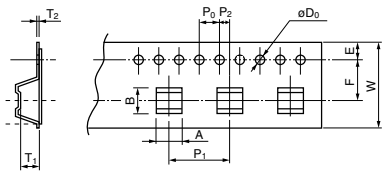




## P•I-S Series (1000pcs./reel)

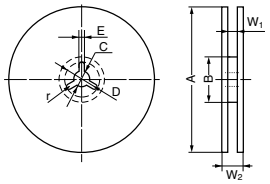
### Dimensions of indented square hole plastic tape




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | $T_1$ | $T_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.2 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.05 |
| 8.2 | 10.05 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.55 | 4.7 | 0.38 |

### Reel dimensions




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 16 | 25 |



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9631PWIVOL10E1205E0

# Leadless Power Inductors P·H Series

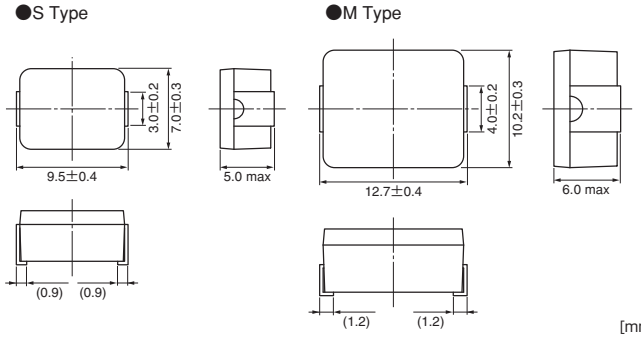
• Precautions (see page 82)

●P·H Series

| Type | Model | Inductance (μH) at 100kHz | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|---|
| **Choke coil** (9×7×5) | **P·H-121LSF** | 120±25% | 0.80 | 0.5 |
| | **P·H-111LSF** | 110±30% | 0.60 | 0.7 |
| **Choke coil** (12×10×6) | **P·H-151LMF** | 150±25% | 0.55 | 0.7 |
| | **P·H-121LMF** | 120±25% | 0.45 | 0.9 |
| | **P·H-900LMF** | 90±25% | 0.40 | 1.0 |
| | **P·H-820LMF** | 82±25% | 0.34 | 1.2 |

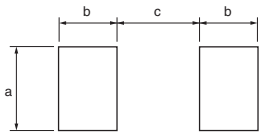
●Storage temperature range: −40 to +105℃

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




| a | b | c |
|---|---|---|
| 6.0 | 5.0 | 9.0 |

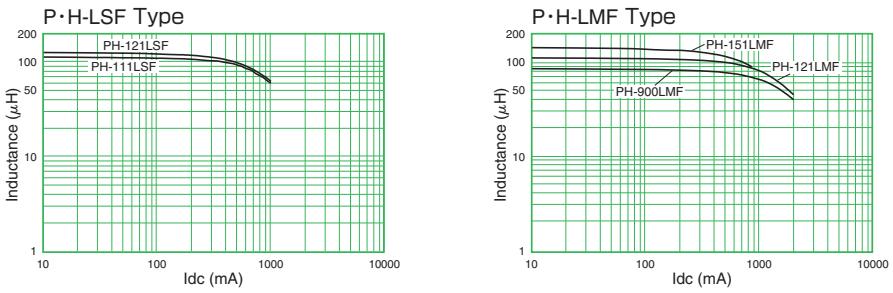
[mm]

**Numbering System**

P·H - ○○○ ○ ○ △△
① ② ③ ④ ⑤

① Series
② Inductance 121:120μH
③ Type L : Choke Coil
④ Dimensions
⑤ NEC TOKIN control number

**DC-Superposed Characteristics**



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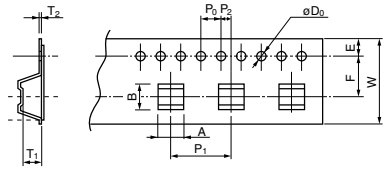
9631PWIVOL10E1205E0

## P•I-M/P•H-LM Series (700pcs./reel)

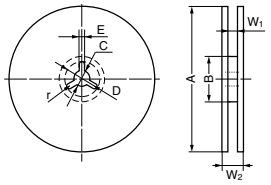
### Dimensions of indented square hole plastic tape




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $øD_0$ | $T_1$ | $T_2$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.05 |
| 10.7 | 13.3 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | 1.55 | 6.0 | 0.4 |

### Reel dimensions




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 30.4 |



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9631PWIVOL10E1205E0

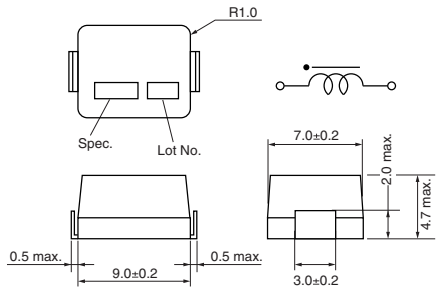
# SN-S3M Series

## [RoHS Compliant]

• Precautions (see page 82)

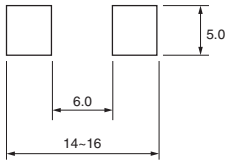
| Model | Rated current (A) | Inductance (μH) | DC resistance (mΩ) max. | Operation temperature range (℃) | Packaging |
|---|---|---|---|---|---|
| **SN-S3M-0523T** | 0.5 | 23.0 min. | 350 | −20~+85 | Taping (1000 pcs./ reel) |
| **SN-S3M-1010T** | 1.0 | 10±20% | 80 | −20~+85 | |
| **SN-S3M-1006AT** | 1.0 | 6.0 min. | 80 | −20~+85 | |
| **SN-S3M-2005T** | 2.0 | 5.0 min. | 40 | −20~+85 | |
| **SN-S3M-20R8T** | 2.0 | 0.8 min. | 20 | −20~+85 | |

**Shape and Dimensions**



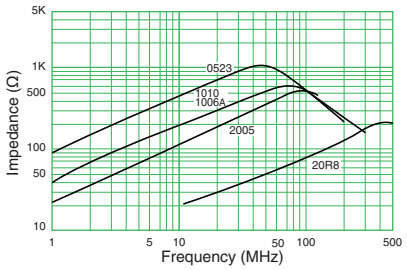

[mm]

**Recommended Land Pattern**




[mm]

**Impedance vs. Frequency**



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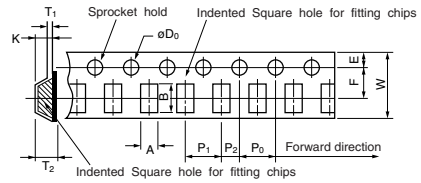
9631PWIVOL10E1205E0

## SN-S3M Series（In contormity to EIAJ RC-1009） （1000pcs./reel）

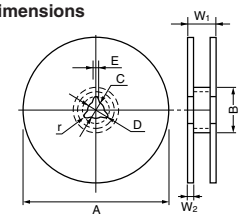
### Dimensions of indented square hole plastic tape




[mm]

| A | B | W | F | E | $P_1$ | $P_2$ | $P_0$ | $D_0$ | $T_1$ | $T_2$ | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1, −0 | max. | max. | max. |
| 7.4 | 10.5 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.5 | 0.6 | 6.5 | 6.4 |

### Reel dimensions




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| — | — | ±0.5 | ±1.0 | ±0.5 | — | +2.0–0 | ±0.5 |
| ø330 | ø80 | ø13 | ø21 | 2.0 | 0 | 12.4 | 1.5 |



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9631PWIVOL10E1205E0

# Leadless Power Inductors
# H·DI-0520 Series

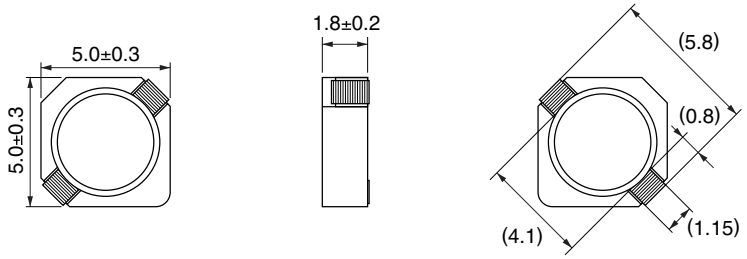
## [RoHS Compliant]

●H·DI-0520 Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|
| **H·DI-0520-1R2** | 1.2±30% | 0.035 | 3.40 |
| **H·DI-0520-2R2** | 2.2±30% | 0.048 | 2.60 |
| **H·DI-0520-3R3** | 3.3±30% | 0.062 | 2.00 |
| **H·DI-0520-4R7** | 4.7±30% | 0.09 | 1.80 |
| **H·DI-0520-6R8** | 6.8±30% | 0.14 | 1.40 |
| **H·DI-0520-100** | 10±20% | 0.16 | 0.90 |
| **H·DI-0520-150** | 15±20% | 0.26 | 0.70 |
| **H·DI-0520-220** | 22±20% | 0.32 | 0.60 |
| **H·DI-0520-330** | 33±20% | 0.54 | 0.40 |
| **H·DI-0520-470** | 47±20% | 0.64 | 0.40 |
| **H·DI-0520-680** | 68±20% | 1.07 | 0.30 |
| **H·DI-0520-101** | 100±20% | 1.87 | 0.20 |

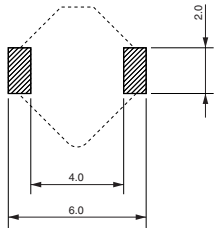
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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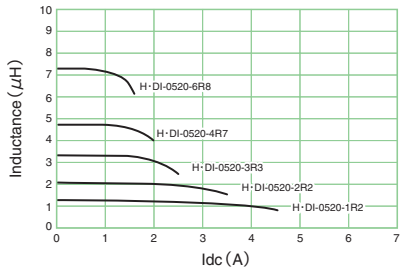
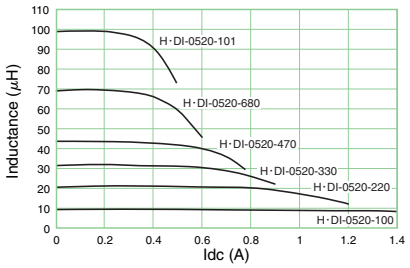
**DC-Superposed Characteristics**

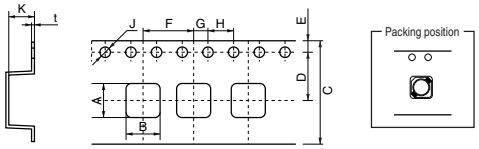
●H·DI-0520 Series




## H•DI-0520 Series (2000pcs./reel)

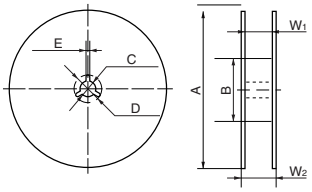
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 5.4 | 5.4 | 12.0 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ø1.5 | 2.2 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, −0 | ±2.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | 12.5 | 16.5 |



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# Leadless Power Inductors H・DI-0630 Series

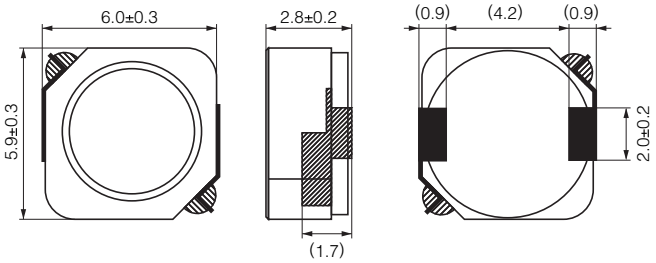
## [RoHS Compliant]

●H・DI-0630 Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (mΩ) max. | Rated current (A) |
|---|---|---|---|
| **H・DI-0630-1R3** | 1.3±30% | 22 | 2.70 |
| **H・DI-0630-2R4** | 2.4±30% | 28 | 2.50 |
| **H・DI-0630-3R8** | 3.8±30% | 40 | 2.00 |
| **H・DI-0630-4R7** | 4.7±30% | 43 | 1.90 |
| **H・DI-0630-6R8** | 6.8±30% | 53 | 1.60 |
| **H・DI-0630-100** | 10±20% | 67 | 1.20 |
| **H・DI-0630-150** | 15±20% | 110 | 1.10 |
| **H・DI-0630-220** | 22±20% | 170 | 0.85 |
| **H・DI-0630-330** | 33±20% | 240 | 0.70 |
| **H・DI-0630-470** | 47±20% | 350 | 0.60 |
| **H・DI-0630-680** | 68±20% | 500 | 0.50 |
| **H・DI-0630-101** | 100±20% | 680 | 0.45 |

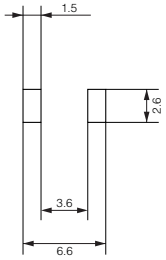
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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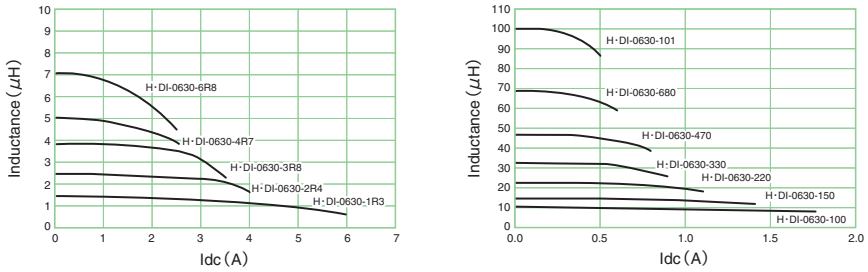
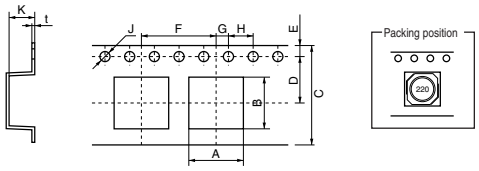
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**




## H•DI-0630 Series (2000pcs./reel)

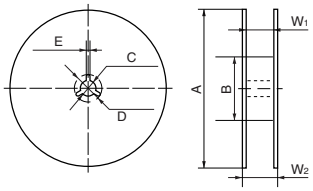
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 6.3 | 6.3 | 12.0 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ø1.5 | 3.2 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, −0 | ±2.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | 12.5 | 16.5 |



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# Leadless Power Inductors
# H・DI-0740 Series

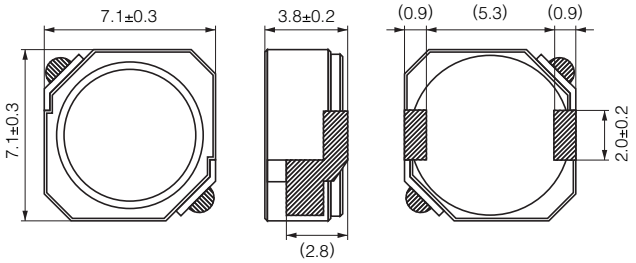
## [RoHS Compliant]

●H・DI-0740 Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (mΩ) max. | Rated current (A) |
|---|---|---|---|
| **H・DI-0740-1R2** | 1.2±30% | 14 | 4.50 |
| **H・DI-0740-2R2** | 2.2±30% | 20 | 4.00 |
| **H・DI-0740-3R0** | 3.0±30% | 22 | 3.00 |
| **H・DI-0740-4R7** | 4.7±30% | 29 | 2.50 |
| **H・DI-0740-6R8** | 6.8±30% | 37 | 1.70 |
| **H・DI-0740-100** | 10±25% | 47 | 1.40 |
| **H・DI-0740-150** | 15±25% | 60 | 1.20 |
| **H・DI-0740-220** | 22±25% | 83 | 0.90 |
| **H・DI-0740-330** | 33±25% | 140 | 0.80 |
| **H・DI-0740-470** | 47±25% | 160 | 0.70 |
| **H・DI-0740-680** | 68±25% | 230 | 0.65 |
| **H・DI-0740-101** | 100±25% | 350 | 0.50 |

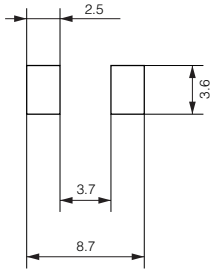
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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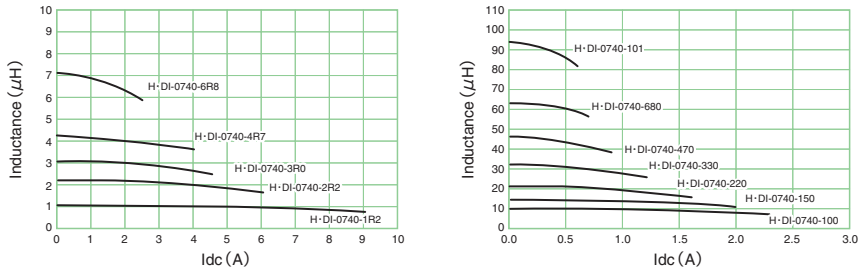
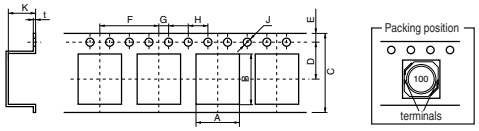
9631PWIVOL10E1205E0

**DC-Superposed Characteristics**




## H•DI-0740 Series (1000pcs./reel)

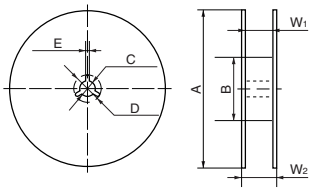
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 7.4 | 7.4 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | ø1.5 | 4.2 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, −0 | ±2.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | 16.5 | 20.5 |



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# Leadless Power Inductors H·DI-0940 Series

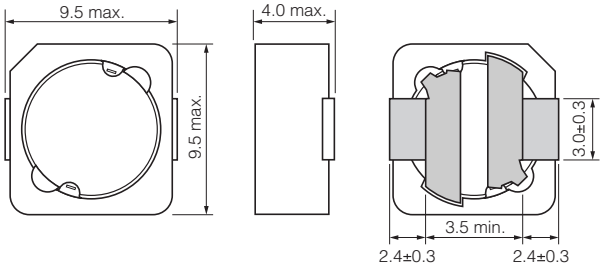
## [RoHS Compliant]

●H·DI-0940 Series

| Model | Inductance at 10kHz,1mA (μH) | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|
| **H·DI-0940-6R8** | 6.8±25% | 0.045 | 3.40 |
| **H·DI-0940-100** | 10±25% | 0.053 | 2.80 |
| **H·DI-0940-150** | 15±25% | 0.08 | 2.30 |
| **H·DI-0940-220** | 22±25% | 0.12 | 1.90 |
| **H·DI-0940-330** | 33±25% | 0.17 | 1.50 |
| **H·DI-0940-470** | 47±20% | 0.23 | 1.30 |
| **H·DI-0940-680** | 68±20% | 0.30 | 1.10 |
| **H·DI-0940-101** | 100±20% | 0.43 | 0.88 |
| **H·DI-0940-151** | 150±20% | 0.70 | 0.72 |
| **H·DI-0940-221** | 220±20% | 1.0 | 0.59 |
| **H·DI-0940-331** | 330±20% | 1.5 | 0.48 |
| **H·DI-0940-471** | 470±20% | 2.3 | 0.41 |
| **H·DI-0940-681** | 680±20% | 3.7 | 0.34 |
| **H·DI-0940-102** | 1000±20% | 4.6 | 0.28 |

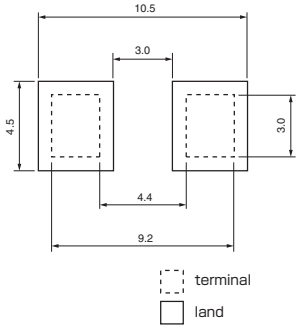
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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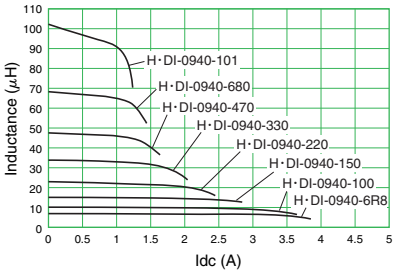
9631PWIVOL10E1205E0

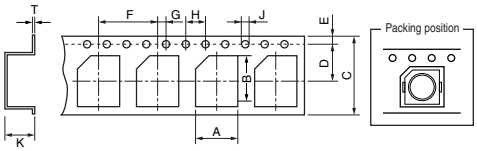
**DC-Superposed Characteristics**

●H・DI-0940 Series




## H•DI-0940 Series（1000pcs./reel）

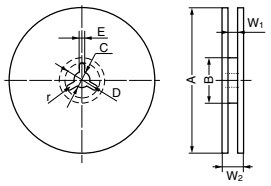
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 9.7 | 9.7 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ø1.5 | 4.5 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | +2.0, -0 | ±1.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 |



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# Leadless Power Inductors H·DI-1040 Series

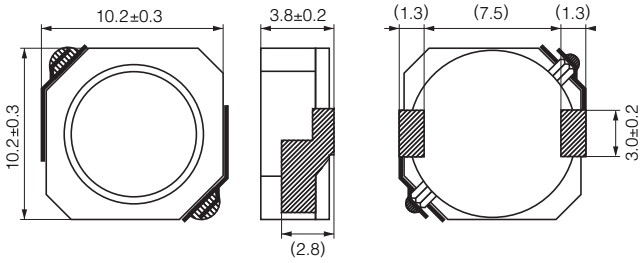
## [RoHS Compliant]

●H·DI-1040 Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (mΩ) max. | Rated current (A) |
|---|---|---|---|
| **H·DI-1040-1R5** | 1.5±30% | 12 | 7.3 |
| **H·DI-1040-2R0** | 2.0±30% | 16 | 6.4 |
| **H·DI-1040-3R0** | 3.0±30% | 17 | 5.8 |
| **H·DI-1040-4R2** | 4.2±30% | 21 | 5.4 |
| **H·DI-1040-5R6** | 5.6±30% | 25 | 5.0 |
| **H·DI-1040-7R5** | 7.5±30% | 27 | 4.7 |
| **H·DI-1040-100** | 10±30% | 35 | 3.9 |
| **H·DI-1040-150** | 15±20% | 52 | 3.4 |
| **H·DI-1040-220** | 22±20% | 63 | 2.9 |
| **H·DI-1040-330** | 33±20% | 100 | 2.4 |
| **H·DI-1040-470** | 47±20% | 140 | 1.9 |
| **H·DI-1040-680** | 68±20% | 220 | 1.6 |
| **H·DI-1040-101** | 100±20% | 300 | 1.3 |

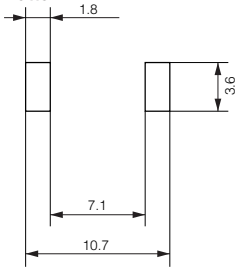
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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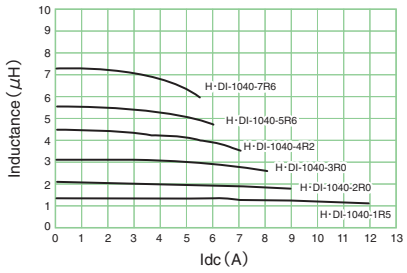
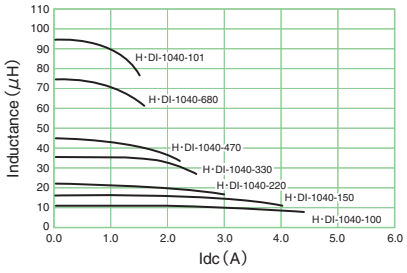
9631PWIVOL10E1205E0

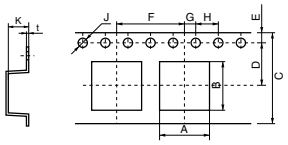
**DC-Superposed Characteristics**




## H•DI-1040 Series (1000pcs./reel)

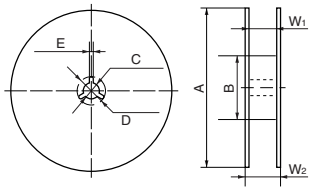
**Dimensions of indented square hole plastic tape**



[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 10.6 | 10.6 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | ø1.5 | 4.2 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, −0 | ±2.0 |
| ø380 | ø80 | ø13.0 | ø21.0 | 2.0 | 24.4 | 28.4 |



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# Leadless Power Inductors H・DI-1240 Series

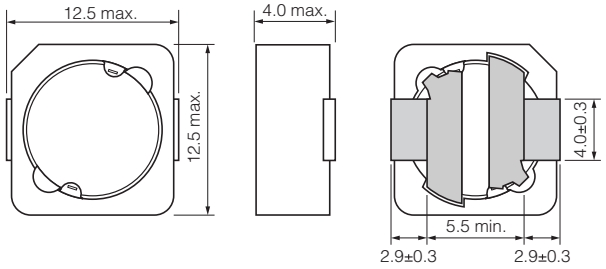
## [RoHS Compliant]

●H・DI-1240 Series

| Model | Inductance at 10kHz,1mA (μH) | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|
| **H・DI-1240-2R2** | 2.2±25% | 0.017 | 5.10 |
| **H・DI-1240-3R3** | 3.3±25% | 0.023 | 4.60 |
| **H・DI-1240-4R7** | 4.7±25% | 0.026 | 4.30 |
| **H・DI-1240-6R8** | 6.8±25% | 0.033 | 3.90 |
| **H・DI-1240-100** | 10±25% | 0.039 | 3.50 |
| **H・DI-1240-150** | 15±25% | 0.060 | 2.90 |
| **H・DI-1240-220** | 22±25% | 0.075 | 2.40 |
| **H・DI-1240-330** | 33±25% | 0.12 | 1.90 |
| **H・DI-1240-470** | 47±20% | 0.18 | 1.60 |
| **H・DI-1240-680** | 68±20% | 0.24 | 1.40 |
| **H・DI-1240-101** | 100±20% | 0.30 | 1.10 |
| **H・DI-1240-151** | 150±20% | 0.50 | 0.90 |
| **H・DI-1240-221** | 220±20% | 0.74 | 0.75 |
| **H・DI-1240-331** | 330±20% | 1.1 | 0.60 |
| **H・DI-1240-471** | 470±20% | 1.6 | 0.50 |
| **H・DI-1240-681** | 680±20% | 2.5 | 0.40 |
| **H・DI-1240-102** | 1000±20% | 3.7 | 0.35 |

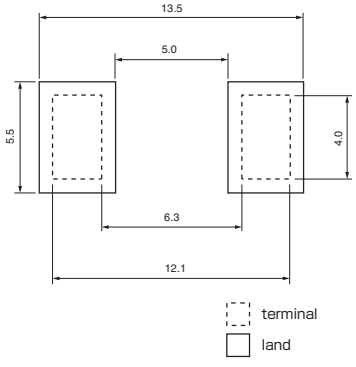
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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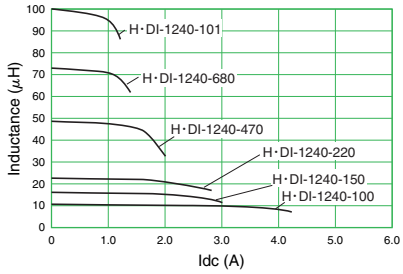
9631PWIVOL10E1205E0

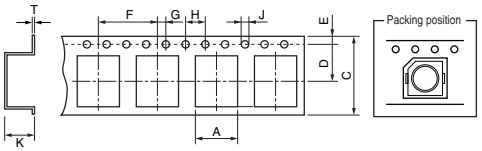
**DC-Superposed Characteristics**

●H・DI-1240 Series




## H•DI-1240 Series (500pcs./reel)

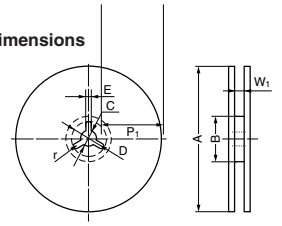
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 12.6 | 12.6 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | ø1.5 | 4.2 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0, -0 | ±1.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 27.4 |



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9631PWIVOL10E1205E0

# Leadless Power Inductors H·DI-1245G Series

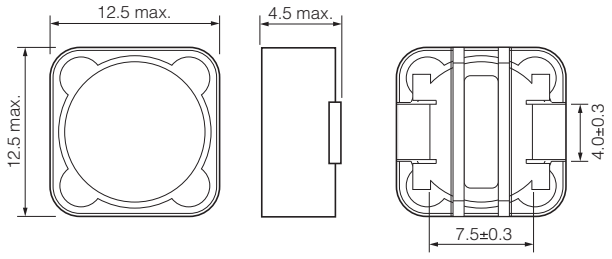
## [RoHS Compliant]

●H·DI-1245G Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (Ω) max. | Rated current (A) |
|---|---|---|---|
| **H·DI-1245G-100** | 10±20% | 28m | 4.50 |
| **H·DI-1245G-150** | 15±20% | 50m | 3.20 |
| **H·DI-1245G-220** | 22±20% | 66m | 2.90 |
| **H·DI-1245G-330** | 33±20% | 97m | 2.70 |
| **H·DI-1245G-470** | 47±20% | 0.15 | 1.90 |
| **H·DI-1245G-680** | 68±20% | 0.19 | 1.50 |
| **H·DI-1245G-101** | 100±20% | 0.28 | 1.30 |
| **H·DI-1245G-151** | 150±20% | 0.48 | 1.00 |
| **H·DI-1245G-221** | 220±20% | 0.61 | 0.85 |

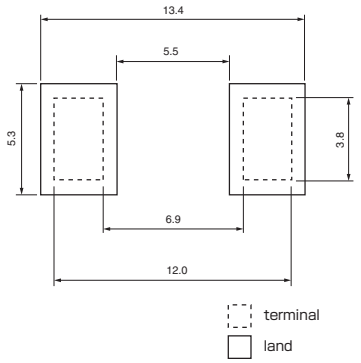
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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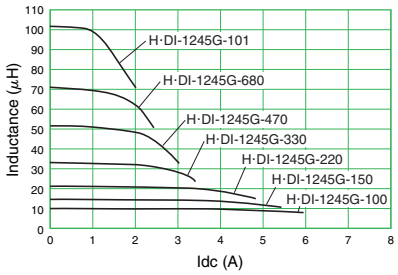
9631PWIVOL10E1205E0

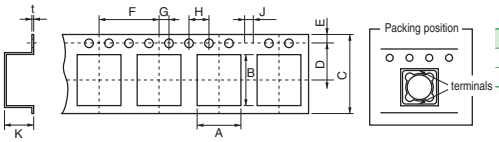
**DC-Superposed Characteristics**

●H·DI-1245G Series




## H•DI-1245G Series (500pcs./reel)

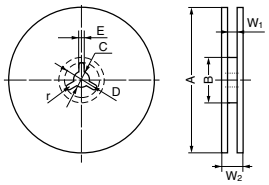
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 12.6 | 12.6 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | ø1.5 | 5.1 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 27.4 |



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# Leadless Power Inductors H・DI-1280G Series

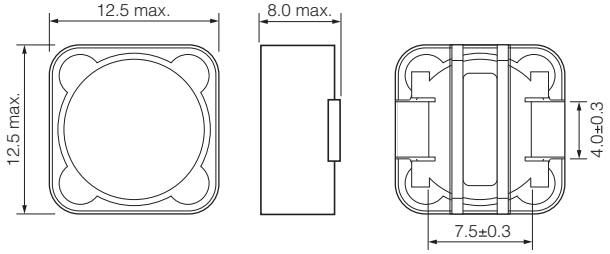
## [RoHS Compliant]

●H・DI-1280G Series

| Model | Inductance at 100kHz,1mA (μH) | DC resistance (mΩ) max. | Rated current (A) |
|---|---|---|---|
| **H・DI-1280G-1R7** | 1.7±30% | 9 | 8.5 |
| **H・DI-1280G-2R7** | 2.7±30% | 10 | 8.0 |
| **H・DI-1280G-3R3** | 3.3±30% | 11 | 7.5 |
| **H・DI-1280G-4R7** | 4.7±30% | 13 | 6.5 |
| **H・DI-1280G-6R0** | 6.0±30% | 14 | 6.0 |
| **H・DI-1280G-100** | 10±20% | 22 | 5.4 |
| **H・DI-1280G-150** | 15±20% | 25 | 4.7 |
| **H・DI-1280G-220** | 22±20% | 35 | 4.0 |
| **H・DI-1280G-330** | 33±20% | 49 | 3.3 |
| **H・DI-1280G-470** | 47±20% | 69 | 2.7 |
| **H・DI-1280G-680** | 68±20% | 100 | 2.2 |
| **H・DI-1280G-101** | 100±20% | 150 | 1.9 |
| **H・DI-1280G-151** | 150±20% | 210 | 1.5 |
| **H・DI-1280G-221** | 220±20% | 300 | 1.3 |

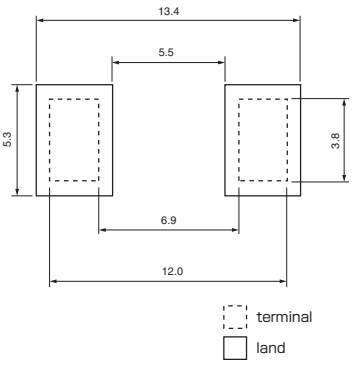
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**




[mm]

**Recommended Land Pattern**




[mm]



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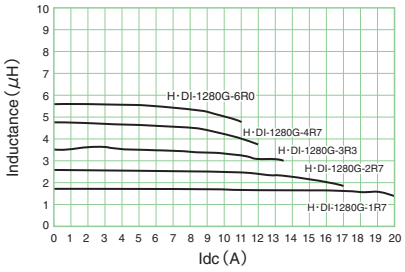
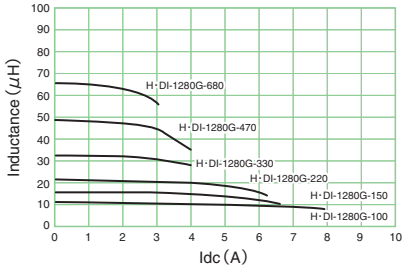
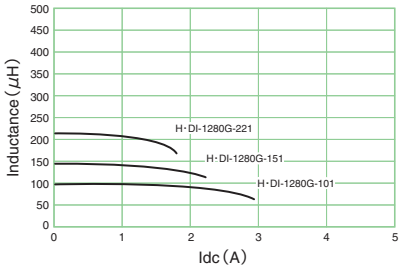
**DC-Superposed Characteristics**

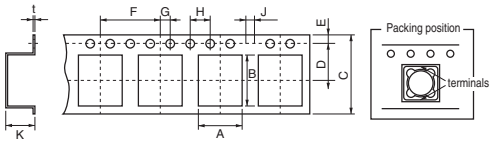



## H•DI-1280G Series (500pcs./reel)

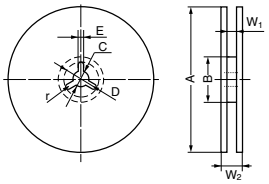
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 12.6 | 12.6 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | ø1.5 | 8.6 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 27.4 |



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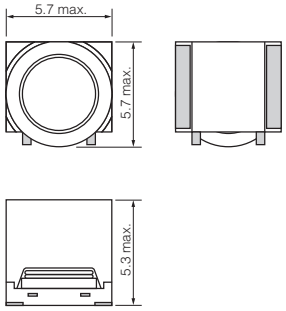
# High Inductance Type SMD Inductors H·LI Series

## [RoHS Compliant]

| Model | Inductance at 160kHz,500mV (mH) | DC resistance (Ω) max. | Rated current (mA) |
|---|---|---|---|
| **H·LI-0505-202** | 2.0±20% | 10 | 100 |
| **H·LI-0505-432** | 4.3±20% | 18 | 70 |
| **H·LI-0505-502** | 5.0±20% | 20 | 40 |

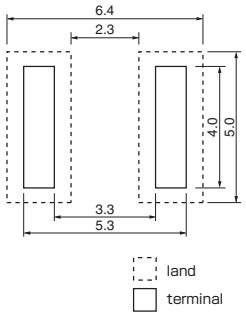
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)

**Shape and Dimensions**



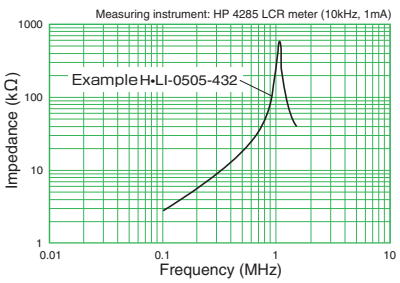

[mm]

**Recommended Land Pattern**

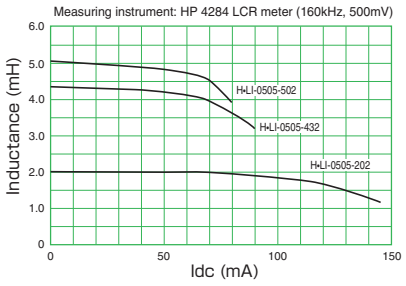



[mm]

**Impedance vs. Frequency**




**DC-Superposed Characteristics**



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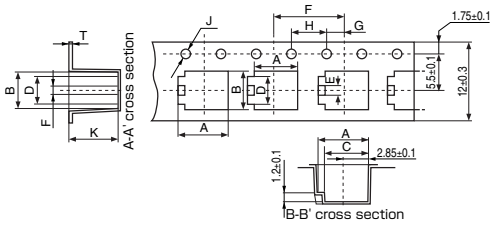
## H•LI-0505 Series (2000pcs./reel)

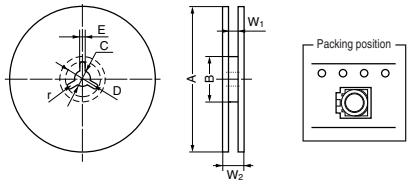
### Dimensions of indented square hole plastic tape




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 5.8 | 5.7 | 5.0 | 3.9 | 1.3 | 8.0 | 2.0 | 4.0 | ø1.5 | 5.4 | 0.4 |

### Reel dimensions




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.2 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 |



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# SSB Coils

## [RoHS Compliant]

●SSB15 Series (SSB 15-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20℃ | Current (Ref.) (A) ΔT=40℃ | Current (Ref.) (A) L change rate 10% |
|---|---|---|---|---|---|
| **SSB15-1R0** | 1.0±20% | 10 | 10.00 | 14.00 | 24.50 |
| **SSB15-1R5** | 1.5±20% | 10 | 8.80 | 12.30 | 19.60 |
| **SSB15-2R2** | 2.2±20% | 20 | 6.40 | 8.90 | 14.00 |
| **SSB15-3R3** | 3.3±20% | 20 | 5.90 | 8.20 | 12.20 |
| **SSB15-4R7** | 4.7±20% | 20 | 5.00 | 7.00 | 10.80 |
| **SSB15-6R8** | 6.8±20% | 30 | 4.30 | 6.00 | 8.90 |
| **SSB15-100** | 10±20% | 40 | 3.40 | 4.70 | 7.00 |
| **SSB15-150** | 15±20% | 60 | 2.70 | 3.70 | 5.70 |
| **SSB15-220** | 22±20% | 80 | 2.20 | 3.00 | 4.90 |
| **SSB15-330** | 33±20% | 110 | 1.80 | 2.50 | 4.00 |
| **SSB15-470** | 47±10% | 180 | 1.40 | 1.90 | 3.20 |
| **SSB15-680** | 68±10% | 220 | 1.20 | 1.60 | 2.70 |
| **SSB15-101** | 100±10% | 320 | 1.00 | 1.40 | 2.20 |
| **SSB15-151** | 150±10% | 430 | 0.87 | 1.20 | 1.80 |
| **SSB15-221** | 220±10% | 600 | 0.71 | 0.99 | 1.40 |
| **SSB15-331** | 330±10% | 960 | 0.55 | 0.77 | 1.20 |
| **SSB15-471** | 470±10% | 1400 | 0.45 | 0.63 | 1.00 |
| **SSB15-681** | 680±10% | 2000 | 0.36 | 0.50 | 0.85 |
| **SSB15-102** | 1000±10% | 3000 | 0.29 | 0.40 | 0.71 |

●SSB14 Series (SSB 14-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20℃ | Current (Ref.) (A) ΔT=40℃ | Current (Ref.) (A) L change rate 10% |
|---|---|---|---|---|---|
| **SSB14-1R0** | 1.0±20% | 10 | 7.00 | 9.80 | 17.50 |
| **SSB14-1R5** | 1.5±20% | 20 | 6.10 | 8.50 | 14.00 |
| **SSB14-2R2** | 2.2±20% | 20 | 5.10 | 7.10 | 11.60 |
| **SSB14-3R3** | 3.3±20% | 30 | 4.10 | 5.70 | 10.00 |
| **SSB14-4R7** | 4.7±20% | 30 | 3.80 | 5.30 | 8.70 |
| **SSB14-6R8** | 6.8±20% | 40 | 3.00 | 4.20 | 7.00 |
| **SSB14-100** | 10±20% | 60 | 2.40 | 3.30 | 5.80 |
| **SSB14-150** | 15±20% | 100 | 1.80 | 2.50 | 4.60 |
| **SSB14-220** | 22±20% | 120 | 1.60 | 2.20 | 3.80 |
| **SSB14-330** | 33±20% | 170 | 1.30 | 1.80 | 3.10 |
| **SSB14-470** | 47±10% | 210 | 1.10 | 1.50 | 2.60 |
| **SSB14-680** | 68±10% | 300 | 0.97 | 1.30 | 2.10 |
| **SSB14-101** | 100±10% | 480 | 0.75 | 1.00 | 1.80 |
| **SSB14-151** | 150±10% | 710 | 0.60 | 0.84 | 1.40 |
| **SSB14-221** | 220±10% | 1000 | 0.51 | 0.71 | 1.20 |
| **SSB14-331** | 330±10% | 1500 | 0.40 | 0.56 | 1.00 |
| **SSB14-471** | 470±10% | 2300 | 0.32 | 0.44 | 0.86 |
| **SSB14-681** | 680±10% | 3400 | 0.26 | 0.36 | 0.72 |
| **SSB14-102** | 1000±10% | 4400 | 0.23 | 0.32 | 0.58 |



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●SSB84 Series (SSB 84-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20℃ | Current (Ref.) (A) ΔT=40℃ | Current (Ref.) (A) L change rate 10% |
|---|---|---|---|---|---|
| **SSB84-1R0** | 1.0±20% | 40 | 2.30 | 3.20 | 10.00 |
| **SSB84-1R5** | 1.5±20% | 40 | 2.20 | 3.00 | 8.30 |
| **SSB84-2R2** | 2.2±20% | 50 | 2.00 | 2.80 | 7.10 |
| **SSB84-3R3** | 3.3±20% | 50 | 1.90 | 2.60 | 6.20 |
| **SSB84-4R7** | 4.7±20% | 60 | 1.70 | 2.30 | 5.00 |
| **SSB84-6R8** | 6.8±20% | 80 | 1.60 | 2.20 | 4.10 |
| **SSB84-100** | 10±20% | 100 | 1.40 | 1.90 | 3.30 |
| **SSB84-150** | 15±20% | 110 | 1.20 | 1.60 | 2.70 |
| **SSB84-220** | 22±20% | 160 | 1.20 | 1.60 | 2.10 |
| **SSB84-330** | 33±20% | 200 | 1.00 | 1.40 | 1.70 |
| **SSB84-470** | 47±10% | 300 | 0.75 | 1.00 | 1.50 |
| **SSB84-680** | 68±10% | 410 | 0.70 | 0.98 | 1.20 |
| **SSB84-101** | 100±10% | 570 | 0.60 | 0.84 | 1.10 |
| **SSB84-151** | 150±10% | 1100 | 0.40 | 0.56 | 0.96 |
| **SSB84-221** | 220±10% | 1450 | 0.35 | 0.49 | 0.77 |
| **SSB84-331** | 330±10% | 2000 | 0.30 | 0.42 | 0.62 |
| **SSB84-471** | 470±10% | 3300 | 0.20 | 0.28 | 0.55 |
| **SSB84-681** | 680±10% | 4100 | 0.20 | 0.28 | 0.45 |
| **SSB84-102** | 1000±10% | 5600 | 0.18 | 0.25 | 0.35 |

●SSB64 Series (SSB 64-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20℃ | Current (Ref.) (A) ΔT=40℃ | Current (Ref.) (A) L change rate 10% |
|---|---|---|---|---|---|
| **SSB64-1R0** | 1.0±20% | 40 | 1.70 | 2.30 | 11.60 |
| **SSB64-1R5** | 1.5±20% | 50 | 1.50 | 2.10 | 10.00 |
| **SSB64-2R2** | 2.2±20% | 60 | 1.50 | 2.10 | 7.70 |
| **SSB64-3R3** | 3.3±20% | 70 | 1.50 | 2.10 | 6.30 |
| **SSB64-4R7** | 4.7±20% | 80 | 1.40 | 1.90 | 5.30 |
| **SSB64-6R8** | 6.8±20% | 100 | 1.30 | 1.80 | 4.30 |
| **SSB64-100** | 10±20% | 120 | 1.20 | 1.60 | 3.60 |
| **SSB64-150** | 15±20% | 150 | 1.00 | 1.40 | 2.90 |
| **SSB64-220** | 22±20% | 240 | 0.80 | 1.10 | 2.40 |
| **SSB64-330** | 33±20% | 290 | 0.70 | 0.98 | 2.00 |
| **SSB64-470** | 47±10% | 420 | 0.55 | 0.77 | 1.60 |
| **SSB64-680** | 68±10% | 830 | 0.40 | 0.56 | 1.40 |
| **SSB64-101** | 100±10% | 1000 | 0.35 | 0.49 | 1.00 |
| **SSB64-151** | 150±10% | 1100 | 0.30 | 0.42 | 0.86 |
| **SSB64-221** | 220±10% | 2400 | 0.30 | 0.42 | 0.71 |
| **SSB64-331** | 330±10% | 3150 | 0.20 | 0.28 | 0.59 |
| **SSB64-471** | 470±10% | 4000 | 0.19 | 0.26 | 0.49 |
| **SSB64-681** | 680±10% | 6600 | 0.15 | 0.21 | 0.41 |
| **SSB64-102** | 1000±10% | 8400 | 0.14 | 0.19 | 0.34 |

●SSB44 Series (SSB 44-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20℃ | Current (Ref.) (A) ΔT=40℃ | Current (Ref.) (A) L change rate 10% |
|---|---|---|---|---|---|
| **SSB44-1R0** | 1.0±20% | 70 | 1.90 | 2.60 | 6.70 |
| **SSB44-1R5** | 1.5±20% | 70 | 1.90 | 2.60 | 5.80 |
| **SSB44-2R2** | 2.2±20% | 100 | 1.60 | 2.20 | 4.70 |
| **SSB44-3R3** | 3.3±20% | 100 | 1.50 | 2.10 | 3.90 |
| **SSB44-4R7** | 4.7±20% | 100 | 1.30 | 1.80 | 3.10 |
| **SSB44-6R8** | 6.8±20% | 130 | 1.20 | 1.60 | 2.60 |
| **SSB44-100** | 10±20% | 170 | 0.85 | 1.10 | 2.10 |
| **SSB44-150** | 15±20% | 270 | 0.75 | 1.00 | 1.70 |
| **SSB44-220** | 22±20% | 370 | 0.65 | 0.91 | 1.30 |
| **SSB44-330** | 33±20% | 550 | 0.45 | 0.63 | 1.10 |
| **SSB44-470** | 47±10% | 820 | 0.40 | 0.56 | 0.97 |
| **SSB44-680** | 68±10% | 920 | 0.35 | 0.49 | 0.83 |
| **SSB44-101** | 100±10% | 1600 | 0.25 | 0.35 | 0.71 |
| **SSB44-151** | 150±10% | 1900 | 0.22 | 0.30 | 0.57 |
| **SSB44-221** | 220±10% | 3000 | 0.20 | 0.28 | 0.46 |
| **SSB44-331** | 330±10% | 4900 | 0.15 | 0.21 | 0.38 |
| **SSB44-471** | 470±10% | 7500 | 0.12 | 0.16 | 0.31 |
| **SSB44-681** | 680±10% | 8300 | 0.10 | 0.14 | 0.29 |

●Operating temperature range: −20 to +105℃ (Including self-temperature rise)



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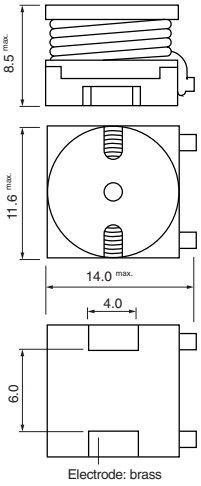
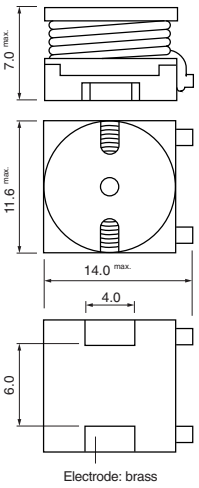
**Shape and Dimensions**

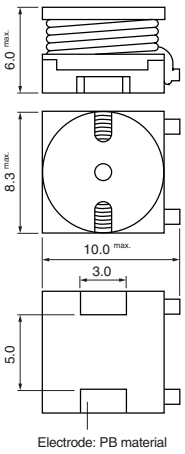
●SSB 15Series



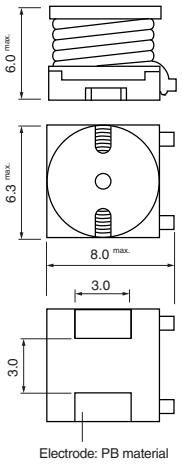

●SSB 14Series



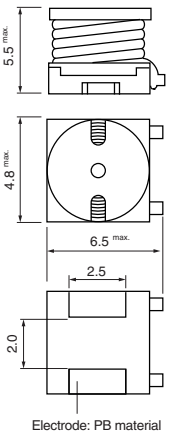

●SSB 84Series




●SSB 64Series



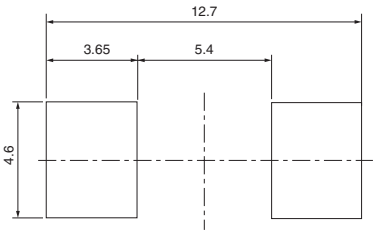

●SSB 44Series



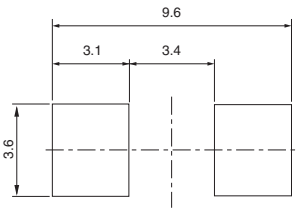

[mm]

**Recommended Land Pattern**

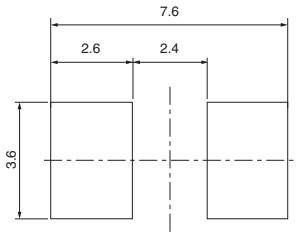
●SSB 14/15Series



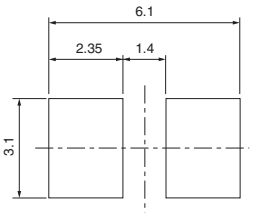

●SSB 84Series




●SSB 64Series




●SSB 44Series




[mm]



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### Numbering System

**SSB - 44 - 101**
① ② ③

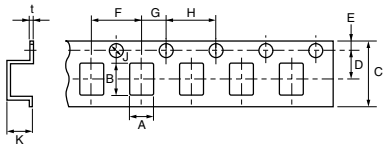
① Series
② Core size (indicated by the first numbers of the core's diameter and height.)
**Model and core size**
The Models use 5-digit numbers that show the core size and inductance.
The first two digits show the core size, indicated by the first numbers of the core's diameter and height.

| Model | Core size [mm] |
|---|---|
| **SSB 15-**□□□ | ø11.0×5.5 |
| **SSB 14-**□□□ | ø11.0×4.0 |
| **SSB 84-**□□□ | ø8.0×4.0 |
| **SSB 64-**□□□ | ø6.0×4.0 |
| **SSB 44-**□□□ | ø4.5×4.0 |

③ Inductance: $10 \times 10^{1} = 100\ (\mu H)$

## SSB14, 15 Series (500pcs./reel)

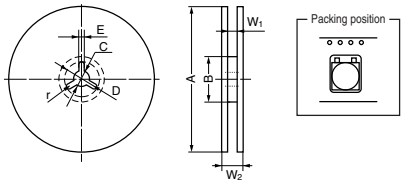
### Dimensions of indented square hole plastic tape




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | SSB14 : 6.5 ± 0.1<br>SSB15 : 8.0 ± 0.1 | ± 0.05 |
| 11.7 | 14 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | ø1.5 | | 0.4 |

### Reel dimensions

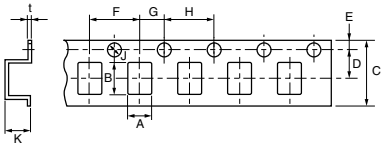



[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 |

## SSB84 Series (1000pcs./reel)

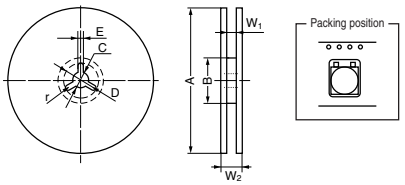
### Dimensions of indented square hole plastic tape




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 8.7 | 10.4 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ø1.5 | 6.0 | 0.4 |

### Reel dimensions




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 |



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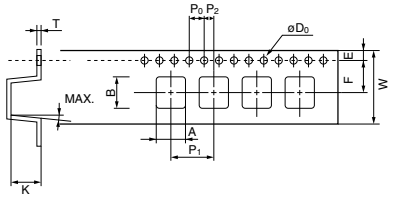
## SSB64 Series (1000pcs./reel)

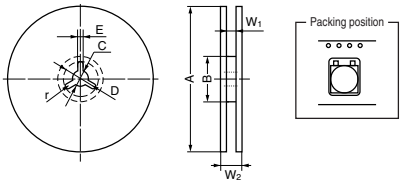
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 6.7 | 8.4 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ø1.5 | 5.9 | 0.4 |

**Reel dimensions**

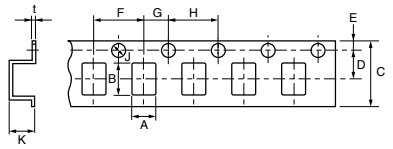



[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 |

## SSB44 Series (2000pcs./reel)

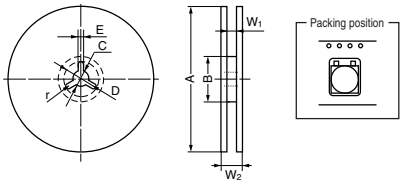
**Dimensions of indented square hole plastic tape**




[mm]

| A | B | C | D | E | F | G | H | J | K | t |
|---|---|---|---|---|---|---|---|---|---|---|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, −0 | ± 0.1 | ± 0.05 |
| 4.8 | 6.0 | 12 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ø1.5 | 5.4 | 0.4 |

**Reel dimensions**




[mm]

| A | B | C | D | E | r | $W_1$ | $W_2$ |
|---|---|---|---|---|---|---|---|
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 |



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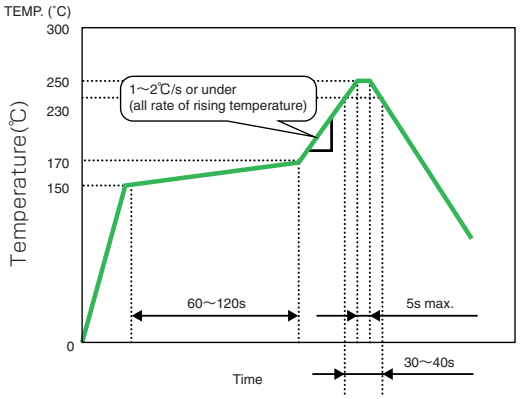
## Precautions

### Shelf Life

Use within 6 months. If the product is used after a storage period of 6 months or longer, confirm its solderability before use.

### Recommended conditions for soldering

- Soldering iron:
  Soldering iron temperature: 280˚C to 320˚C
  Soldering duration: approx. 4 sec.
- Flow soldering:
  Preheating: Approx. 100˚C to 150˚C for 1 min.
  Soldering temperature: 260˚C±5˚C for 10±1 sec.
- Reflow soldering:
  Refer to the following temperature profile.




### Precautions for product storage

Storage condition

- Avoid storage in high temperature and high humidity environment as such condition may deteriorate the solderability of external electrode.
- Avoid storage in atmosphere containing toxic gasses or acid (e.g. sulpher and chlorine) as such gas may deteriorate the solderability of external electrode.
- Avoid storage near strong magnetic field as such condition may magnetize the product.

Storage after unpacking

- Products should be stored in environment with temperature lower than 40˚C and humidity lower than 70%RH.
- To achieve best solderability, use the products as soon as possible after unpacking. Store the leftover product in dry condition with desiccant.



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9631PWIVOL10E1205E0

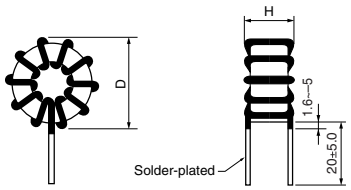
# OH Coils

## [RoHS Compliant]

| Model | Rated current (A) | Inductance L (μH) at 100kHz ±25% at Idc=0 | Inductance L (μH) at 100kHz min. at Idc=Rated * | DC resistance (mΩ) max. | External dimensions (mm) max. | Diameter of magnetic wire (mmø) |
|---|---|---|---|---|---|---|
| **OH-011Z** | 1 | 200 | 120 (160) | 150 | ø17×10 | 0.5 |
| **OH-021Z** | 2 | 65 | 41 (55) | 50 | ø18×11 | 0.7 |
| **OH-031Z** | 3 | 30 | 17 (23) | 30 | ø18×10 | 0.8 |
| **OH-012Z** | 1 | 600 | 337 (450) | 220 | ø21×11 | 0.5 |
| **OH-022Z** | 2 | 180 | 101 (135) | 65 | ø22×12 | 0.7 |
| **OH-032Z** | 3 | 120 | 60 (80) | 45 | ø22×12 | 0.8 |
| **OH-052Z** | 5 | 45 | 22 (30) | 20 | ø23×13 | 1.0 |
| **OH-013Z** | 1 | 1000 | 600 (800) | 375 | ø26×12 | 0.5 |
| **OH-023Z** | 2 | 500 | 247 (330) | 140 | ø26×13 | 0.7 |
| **OH-033Z** | 3 | 130 | 75 (100) | 55 | ø26×12 | 0.8 |
| **OH-053Z** | 5 | 90 | 41 (55) | 30 | ø26×13 | 1.0 |
| **OH-073Z** | 7 | 90 | 28 (36) | 25 | ø27×13 | 1.2 |
| **OH-034SZ** | 3 | 400 | 187 (250) | 105 | ø32×14 | 0.8 |
| **OH-054SZ** | 5 | 350 | 120 (160) | 65 | ø33×16 | 1.0 |
| **OH-074SZ** | 7 | 250 | 80 (106) | 40 | ø34×18 | 1.2 |
| **OH-104SZ** | 10 | 50 | 22 (30) | 15 | ø34×16 | 1.1×2 P |
| **OH-024Z** | 2 | 1500 | 712 (950) | 270 | ø34×19 | 0.7 |
| **OH-034Z** | 3 | 300 | 172 (230) | 95 | ø34×19 | 0.8 |
| **OH-054Z** | 5 | 210 | 105 (140) | 50 | ø34×20 | 1.0 |
| **OH-074Z** | 7 | 100 | 65 (87) | 30 | ø34×18 | 1.2 |
| **OH-104Z** | 10 | 45 | 22 (30) | 10 | ø34×20 | 1.6 |
| **OH-035Z** | 3 | 700 | 350 (450) | 140 | ø39×19 | 0.8 |
| **OH-055Z** | 5 | 600 | 270 (290) | 85 | ø40×19 | 1.0 |
| **OH-075Z** | 7 | 400 | 120 (160) | 50 | ø40×21 | 1.2 |
| **OH-105Z** | 10 | 180 | 60 (80) | 20 | ø41×20 | 1.6 |
| **OH-205Z** | 20 | 20 | 10 (14) | 6 | ø42×20 | 1.8×2 P |

*Parenthesized values are examples of actually measured values.
●The core is covered with coating. (powder epoxy coating)

**Shape and Dimensions**




[mm]



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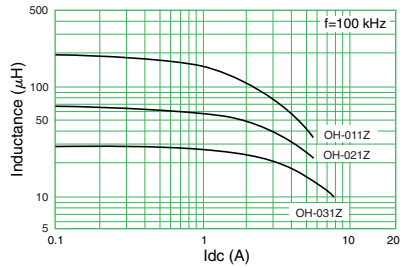
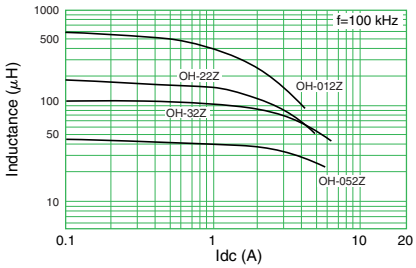
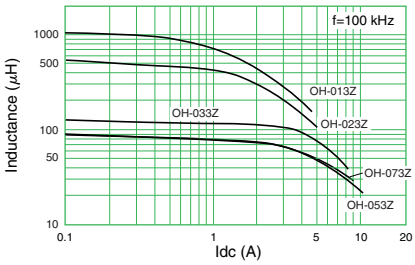
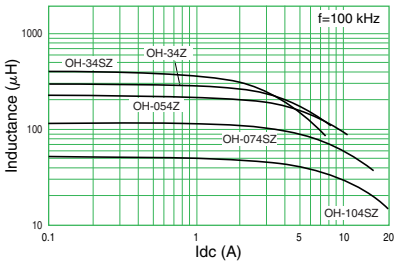
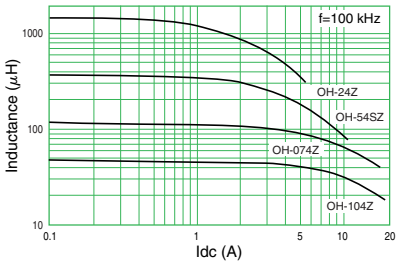
**DC-Superposed Characteristics**

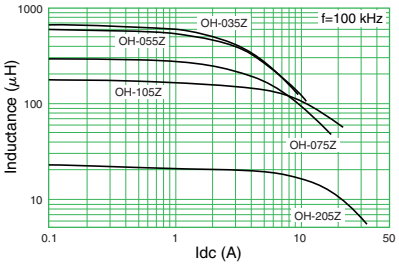


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9631PWIVOL10E1205E0

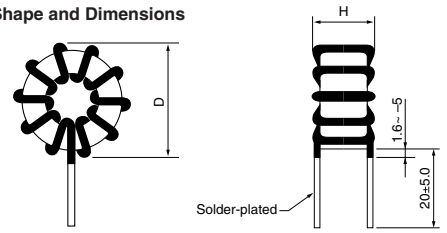
# SHP Coils

## [RoHS Compliant]

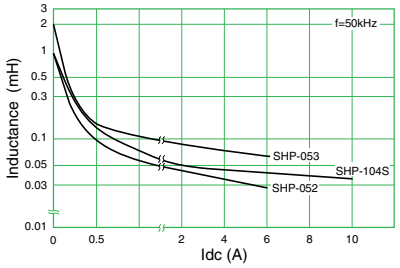
| Model | Rated current (A) | Inductance (μH) at 50kHz min. at Idc | Inductance (μH) at 50kHz min. at Idc Rated *1 | DC resistance (mΩ) max. | External dimensions D×H (mm) max. | Diameter of magnetic wire (mmφ) | Temperature rise (K) *2 |
|---|---|---|---|---|---|---|---|
| **SHP-012** | 1 | 4500 | 365( 490) | 340 | ø24×18 | 0.5 | ≦30 |
| **SHP-022** | 2 | 1500 | 115 (155) | 110 | ø24×18 | 0.7 | ≦30 |
| **SHP-032** | 3 | 1120 | 63 (85) | 70 | ø25×19 | 0.8 | ≦30 |
| **SHP-052** | 5 | 375 | 25 (35) | 30 | ø27×20 | 1.0 | ≦30 |
| **SHP-013** | 1 | 9000 | 675 (900) | 500 | ø28×19 | 0.5 | ≦30 |
| **SHP-023** | 2 | 4500 | 260 (350) | 190 | ø29×19 | 0.7 | ≦30 |
| **SHP-033** | 3 | 1120 | 95 (130) | 80 | ø28×18 | 0.8 | ≦30 |
| **SHP-053** | 5 | 750 | 48 (65) | 50 | ø29×20 | 1.0 | ≦30 |
| **SHP-034S** | 3 | 3750 | 215 (290) | 130 | ø35×21 | 0.8 | ≦40 |
| **SHP-054S** | 5 | 3750 | 135 (180) | 85 | ø36×21 | 1.0 | ≦40 |
| **SHP-104S** | 10 | 525 | 25 (35) | 20 | ø37×23 | 1.6 | ≦40 |

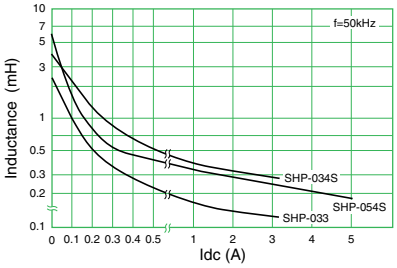
• Parenthesized values are examples of actually measured values.
*1: Temperature rise of Idc rated. • Cores insulation cap: polypropylene, A type insulation

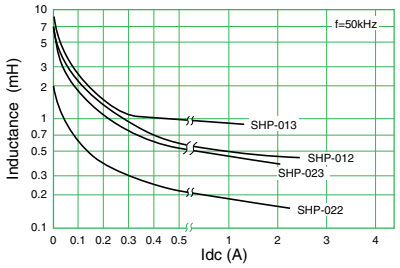
### Shape and Dimensions




### DC-Superposed Characteristics



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9631PWIVOL10E1205E0

# SBC Coils

## [RoHS Compliant]

●SBC1Series (SBC1-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate-10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC1-1R0-312** | 1.0±20% | 0.03 | 3.10 | 4.30 | 5.20 | ○ | |
| **SBC1-1R5-292** | 1.5±20% | 0.03 | 2.90 | 4.00 | 4.00 | ○ | |
| **SBC1-2R2-272** | 2.2±20% | 0.04 | 2.70 | 3.70 | 3.20 | ○ | |
| **SBC1-3R3-232** | 3.3±20% | 0.04 | 2.30 | 3.20 | 2.70 | ○ | |
| **SBC1-4R7-202** | 4.7±20% | 0.05 | 2.00 | 2.80 | 2.10 | ○ | |
| **SBC1-6R8-182** | 6.8±20% | 0.06 | 1.80 | 2.50 | 1.90 | ○ | |
| **SBC1-100-172** | 10±20% | 0.08 | 1.70 | 2.30 | 1.50 | ○ | |
| **SBC1-150-162** | 15±20% | 0.10 | 1.60 | 2.20 | 1.20 | ○ | |
| **SBC1-220-132** | 22±20% | 0.13 | 1.30 | 1.80 | 1.00 | ○ | |
| **SBC1-330-102** | 33±20% | 0.22 | 1.00 | 1.40 | 0.83 | ○ | |
| **SBC1-470-711** | 47±10% | 0.34 | 0.71 | 0.99 | 0.71 | | ○ |
| **SBC1-680-651** | 68±10% | 0.42 | 0.65 | 0.91 | 0.59 | | ○ |
| **SBC1-101-571** | 100±10% | 0.65 | 0.57 | 0.79 | 0.47 | | ○ |
| **SBC1-151-431** | 150±10% | 1.00 | 0.43 | 0.60 | 0.38 | | ○ |
| **SBC1-221-391** | 220±10% | 1.20 | 0.39 | 0.54 | 0.32 | | ○ |
| **SBC1-331-341** | 330±10% | 1.90 | 0.34 | 0.47 | 0.26 | | ○ |
| **SBC1-471-301** | 470±10% | 2.40 | 0.30 | 0.42 | 0.21 | | ○ |
| **SBC1-681-251** | 680±10% | 3.40 | 0.25 | 0.35 | 0.18 | | ○ |
| **SBC1-102-211** | 1000±10% | 4.90 | 0.21 | 0.29 | 0.14 | | ○ |
| **SBC1-152-181** | 1500±10% | 8.00 | 0.18 | 0.25 | 0.12 | | ○ |

Package: Bulk 10,000pcs/box

●SBC2Series (SBC2-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate-10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC2-1R0-612** | 1.0±20% | 0.01 | 6.10 | 8.50 | 6.40 | ○ | |
| **SBC2-1R5-402** | 1.5±20% | 0.02 | 4.00 | 5.60 | 4.90 | ○ | |
| **SBC2-3R3-352** | 3.3±20% | 0.03 | 3.50 | 4.90 | 4.00 | ○ | |
| **SBC2-4R7-262** | 4.7±20% | 0.04 | 2.60 | 3.60 | 3.10 | ○ | |
| **SBC2-6R8-242** | 6.8±20% | 0.05 | 2.40 | 3.30 | 2.70 | ○ | |
| **SBC2-100-212** | 10±20% | 0.06 | 2.10 | 2.90 | 2.10 | ○ | |
| **SBC2-150-162** | 15±20% | 0.08 | 1.60 | 2.20 | 1.70 | ○ | |
| **SBC2-220-132** | 22±20% | 0.11 | 1.30 | 1.80 | 1.40 | ○ | |
| **SBC2-330-112** | 33±20% | 0.18 | 1.10 | 1.50 | 1.20 | ○ | |
| **SBC2-470-951** | 47±10% | 0.21 | 0.95 | 1.30 | 1.00 | ○ | |
| **SBC2-680-871** | 68±10% | 0.26 | 0.87 | 1.20 | 0.81 | ○ | |
| **SBC2-101-671** | 100±10% | 0.41 | 0.67 | 0.93 | 0.68 | | ○ |
| **SBC2-151-501** | 150±10% | 0.64 | 0.50 | 0.70 | 0.55 | | ○ |
| **SBC2-221-411** | 220±10% | 0.87 | 0.41 | 0.57 | 0.45 | | ○ |
| **SBC2-331-341** | 330±10% | 1.40 | 0.34 | 0.47 | 0.37 | | ○ |
| **SBC2-471-271** | 470±10% | 2.00 | 0.27 | 0.37 | 0.32 | | ○ |
| **SBC2-681-211** | 680±10% | 3.10 | 0.21 | 0.29 | 0.26 | | ○ |
| **SBC2-102-181** | 1000±10% | 4.00 | 0.18 | 0.25 | 0.21 | | ○ |
| **SBC2-152-141** | 1500±10% | 6.20 | 0.14 | 0.19 | 0.17 | | ○ |
| **SBC2-222-121** | 2200±10% | 8.00 | 0.12 | 0.16 | 0.14 | | ○ |
| **SBC2-332-900** | 3300±10% | 13.80 | 0.09 | 0.12 | 0.11 | | ○ |

Package: Soft lead · bulk 3,750pcs/box
Pin lead · bulk 8,000pcs/box



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●SBC3Series (SBC3-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate−10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC3-1R2-752** | 1.2±20% | 0.01 | 7.50 | 10.50 | 9.80 | ○ | |
| **SBC3-1R5-632** | 1.5±20% | 0.01 | 6.30 | 8.80 | 8.30 | ○ | |
| **SBC3-2R2-602** | 2.2±20% | 0.02 | 6.00 | 8.40 | 7.20 | ○ | |
| **SBC3-3R3-472** | 3.3±20% | 0.02 | 4.70 | 6.50 | 5.60 | ○ | |
| **SBC3-4R7-422** | 4.7±20% | 0.02 | 4.20 | 5.80 | 4.60 | ○ | |
| **SBC3-6R8-392** | 6.8±20% | 0.03 | 3.90 | 5.40 | 4.00 | ○ | |
| **SBC3-100-362** | 10±20% | 0.03 | 3.60 | 5.00 | 3.00 | ○ | |
| **SBC3-150-232** | 15±20% | 0.05 | 2.30 | 3.20 | 2.60 | ○ | |
| **SBC3-220-202** | 22±20% | 0.06 | 2.00 | 2.80 | 2.10 | ○ | |
| **SBC3-330-172** | 33±20% | 0.09 | 1.70 | 2.30 | 1.80 | ○ | |
| **SBC3-470-142** | 47±10% | 0.12 | 1.40 | 1.90 | 1.40 | ○ | |
| **SBC3-680-112** | 68±10% | 0.19 | 1.10 | 1.50 | 1.20 | ○ | |
| **SBC3-101-961** | 100±10% | 0.26 | 0.96 | 1.30 | 1.00 | ○ | |
| **SBC3-151-791** | 150±10% | 0.36 | 0.79 | 1.10 | 0.81 | ○ | |
| **SBC3-221-681** | 220±10% | 0.49 | 0.68 | 0.95 | 0.67 | | ○ |
| **SBC3-331-551** | 330±10% | 0.72 | 0.55 | 0.77 | 0.53 | | ○ |
| **SBC3-471-491** | 470±10% | 1.02 | 0.49 | 0.68 | 0.46 | | ○ |
| **SBC3-681-361** | 680±10% | 1.62 | 0.36 | 0.50 | 0.38 | | ○ |
| **SBC3-102-281** | 1000±10% | 2.37 | 0.28 | 0.39 | 0.31 | | ○ |
| **SBC3-152-251** | 1500±10% | 3.64 | 0.25 | 0.35 | 0.26 | | ○ |
| **SBC3-222-191** | 2200±10% | 5.62 | 0.19 | 0.26 | 0.21 | | ○ |
| **SBC3-332-151** | 3300±10% | 7.66 | 0.15 | 0.21 | 0.17 | | ○ |
| **SBC3-472-121** | 4700±10% | 11.40 | 0.12 | 0.16 | 0.14 | | ○ |
| **SBC3-682-111** | 6800±10% | 14.50 | 0.11 | 0.15 | 0.12 | | ○ |

Package: Bulk 4,000pcs/box

●SBC4Series (SBC4-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate−10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC4-1R0-742** | 1.0±20% | 0.01 | 7.40 | 10.30 | 14.90 | ○ | |
| **SBC4-1R5-712** | 1.5±20% | 0.01 | 7.10 | 9.90 | 12.60 | ○ | |
| **SBC4-2R7-662** | 2.7±20% | 0.02 | 6.60 | 9.20 | 9.60 | ○ | |
| **SBC4-3R3-642** | 3.3±20% | 0.02 | 6.40 | 8.90 | 8.60 | ○ | |
| **SBC4-4R7-582** | 4.7±20% | 0.02 | 5.80 | 8.10 | 7.10 | ○ | |
| **SBC4-6R8-452** | 6.8±20% | 0.03 | 4.50 | 6.30 | 5.60 | ○ | |
| **SBC4-100-292** | 10±20% | 0.04 | 2.90 | 4.00 | 4.60 | ○ | |
| **SBC4-150-232** | 15±20% | 0.06 | 2.30 | 3.20 | 4.00 | ○ | |
| **SBC4-220-202** | 22±20% | 0.07 | 2.00 | 2.80 | 3.20 | ○ | |
| **SBC4-330-182** | 33±20% | 0.09 | 1.80 | 2.50 | 2.60 | ○ | |
| **SBC4-470-162** | 47±10% | 0.11 | 1.60 | 2.20 | 2.10 | ○ | |
| **SBC4-680-122** | 68±10% | 0.19 | 1.20 | 1.60 | 1.80 | ○ | |
| **SBC4-101-102** | 100±10% | 0.26 | 1.00 | 1.40 | 1.50 | ○ | |
| **SBC4-151-861** | 150±10% | 0.36 | 0.86 | 1.20 | 1.20 | ○ | |
| **SBC4-221-721** | 220±10% | 0.47 | 0.72 | 1.00 | 1.00 | | ○ |
| **SBC4-331-591** | 330±10% | 0.67 | 0.59 | 0.82 | 0.81 | | ○ |
| **SBC4-471-491** | 470±10% | 0.95 | 0.49 | 0.68 | 0.68 | | ○ |
| **SBC4-681-431** | 680±10% | 1.32 | 0.43 | 0.60 | 0.57 | | ○ |
| **SBC4-102-291** | 1000±10% | 2.15 | 0.29 | 0.40 | 0.47 | | ○ |
| **SBC4-152-221** | 1500±10% | 3.24 | 0.22 | 0.30 | 0.38 | | ○ |
| **SBC4-222-211** | 2200±10% | 4.97 | 0.21 | 0.29 | 0.32 | | ○ |
| **SBC4-332-161** | 3300±10% | 7.69 | 0.16 | 0.22 | 0.26 | | ○ |
| **SBC4-472-141** | 4700±10% | 9.78 | 0.14 | 0.19 | 0.21 | | ○ |
| **SBC4-682-111** | 6800±10% | 15.00 | 0.11 | 0.15 | 0.18 | | ○ |
| **SBC4-103-111** | 10000±10% | 19.50 | 0.11 | 0.15 | 0.14 | | ○ |

Package: Soft lead · bulk 3,000pcs/box
Pin lead · bulk 4,000pcs/box



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●SBC6Series (SBC6-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate-10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC6-1R0-962** | 1.0±20% | 0.01 | 9.60 | 13.40 | 37.70 | ○ | |
| **SBC6-1R5-942** | 1.5±20% | 0.01 | 9.40 | 13.10 | 30.90 | ○ | |
| **SBC6-2R7-872** | 2.7±20% | 0.01 | 8.70 | 12.10 | 22.60 | ○ | |
| **SBC6-3R3-852** | 3.3±20% | 0.01 | 8.50 | 11.90 | 20.00 | ○ | |
| **SBC6-4R7-802** | 4.7±20% | 0.01 | 8.00 | 11.20 | 16.10 | ○ | |
| **SBC6-6R8-662** | 6.8±20% | 0.02 | 6.60 | 9.20 | 13.60 | ○ | |
| **SBC6-100-462** | 10±20% | 0.03 | 4.60 | 6.40 | 10.90 | ○ | |
| **SBC6-150-382** | 15±20% | 0.03 | 3.80 | 5.30 | 9.10 | ○ | |
| **SBC6-220-302** | 22±20% | 0.05 | 3.00 | 4.20 | 7.50 | ○ | |
| **SBC6-330-272** | 33±20% | 0.06 | 2.70 | 3.70 | 6.10 | ○ | |
| **SBC6-470-232** | 47±10% | 0.08 | 2.30 | 3.20 | 5.00 | ○ | |
| **SBC6-680-222** | 68±10% | 0.09 | 2.20 | 3.00 | 4.10 | ○ | |
| **SBC6-101-172** | 100±10% | 0.13 | 1.70 | 2.30 | 3.50 | ○ | |
| **SBC6-151-122** | 150±10% | 0.23 | 1.20 | 1.60 | 2.80 | ○ | |
| **SBC6-221-112** | 220±10% | 0.33 | 1.10 | 1.50 | 2.30 | ○ | |
| **SBC6-331-871** | 330±10% | 0.41 | 0.87 | 1.20 | 1.90 | ○ | |
| **SBC6-471-701** | 470±10% | 0.63 | 0.70 | 0.98 | 1.60 | ○ | |
| **SBC6-681-631** | 680±10% | 0.98 | 0.63 | 0.88 | 1.30 | | ○ |
| **SBC6-102-561** | 1000±10% | 1.21 | 0.56 | 0.78 | 1.10 | | ○ |
| **SBC6-152-451** | 1500±10% | 1.80 | 0.45 | 0.63 | 0.90 | | ○ |
| **SBC6-222-351** | 2200±10% | 2.63 | 0.35 | 0.49 | 0.73 | | ○ |
| **SBC6-332-281** | 3300±10% | 4.24 | 0.28 | 0.39 | 0.61 | | ○ |
| **SBC6-472-241** | 4700±10% | 5.92 | 0.24 | 0.33 | 0.50 | | ○ |
| **SBC6-682-181** | 6800±10% | 8.92 | 0.18 | 0.25 | 0.42 | | ○ |
| **SBC6-103-161** | 10000±10% | 13.60 | 0.16 | 0.22 | 0.35 | | ○ |

Package: Soft lead · bulk 1,600pcs/box
Pin lead · bulk 2,000pcs/box

●SBC7Series (SBC7-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) ΔT=40°C | Current (Reference value) (A) L change rate-10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC7-6R8-612** | 6.8±20% | 0.02 | 6.10 | 8.50 | 13.90 | ○ | |
| **SBC7-100-532** | 10±20% | 0.02 | 5.30 | 7.20 | 11.80 | ○ | |
| **SBC7-150-482** | 15±20% | 0.03 | 4.80 | 6.70 | 9.60 | ○ | |
| **SBC7-220-432** | 22±20% | 0.03 | 4.30 | 6.00 | 7.80 | ○ | |
| **SBC7-330-342** | 33±20% | 0.05 | 3.40 | 4.70 | 6.20 | ○ | |
| **SBC7-470-282** | 47±10% | 0.06 | 2.80 | 3.90 | 5.20 | ○ | |
| **SBC7-680-222** | 68±10% | 0.09 | 2.20 | 3.00 | 4.50 | ○ | |
| **SBC7-101-192** | 100±10% | 0.12 | 1.90 | 2.60 | 3.60 | ○ | |
| **SBC7-151-172** | 150±10% | 0.16 | 1.70 | 2.30 | 2.90 | ○ | |
| **SBC7-221-132** | 220±10% | 0.25 | 1.30 | 1.80 | 2.40 | ○ | |
| **SBC7-331-941** | 330±10% | 0.45 | 0.94 | 1.30 | 2.00 | ○ | |
| **SBC7-471-851** | 470±10% | 0.55 | 0.85 | 1.10 | 1.60 | ○ | |
| **SBC7-681-701** | 680±10% | 0.81 | 0.70 | 0.98 | 1.40 | ○ | |
| **SBC7-102-541** | 1000±10% | 1.20 | 0.54 | 0.75 | 1.10 | | ○ |
| **SBC7-152-481** | 1500±10% | 1.58 | 0.48 | 0.67 | 0.93 | | ○ |
| **SBC7-222-421** | 2200±10% | 2.18 | 0.42 | 0.58 | 0.77 | | ○ |
| **SBC7-332-361** | 3300±10% | 3.51 | 0.36 | 0.50 | 0.63 | | ○ |
| **SBC7-472-281** | 4700±10% | 4.83 | 0.28 | 0.39 | 0.53 | | ○ |
| **SBC7-682-211** | 6800±10% | 7.00 | 0.21 | 0.29 | 0.44 | | ○ |
| **SBC7-103-191** | 10000±10% | 10.30 | 0.19 | 0.26 | 0.36 | | ○ |

Package: Bulk 1,000pcs/box



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●SBC8Series (SBC8-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20℃ | Current (Reference value) (A) ΔT=40℃ | Current (Reference value) (A) L change rate−10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC8-6R8-862** | 6.8±20% | 0.02 | 8.60 | 12.00 | 13.90 | ○ | |
| **SBC8-100-692** | 10±20% | 0.02 | 6.90 | 9.60 | 11.80 | ○ | |
| **SBC8-150-532** | 15±20% | 0.03 | 5.30 | 7.40 | 9.60 | ○ | |
| **SBC8-220-492** | 22±20% | 0.03 | 4.90 | 6.80 | 7.80 | ○ | |
| **SBC8-330-452** | 33±20% | 0.04 | 4.50 | 6.30 | 6.50 | ○ | |
| **SBC8-470-372** | 47±10% | 0.04 | 3.70 | 5.10 | 5.40 | ○ | |
| **SBC8-680-322** | 68±10% | 0.06 | 3.20 | 4.40 | 4.30 | ○ | |
| **SBC8-101-242** | 100±10% | 0.09 | 2.40 | 3.30 | 3.50 | ○ | |
| **SBC8-151-202** | 150±10% | 0.15 | 2.00 | 2.80 | 3.00 | ○ | |
| **SBC8-221-182** | 220±10% | 0.17 | 1.80 | 2.50 | 2.40 | ○ | |
| **SBC8-331-142** | 330±10% | 0.25 | 1.40 | 1.90 | 2.00 | ○ | |
| **SBC8-471-112** | 470±10% | 0.42 | 1.10 | 1.50 | 1.60 | ○ | |
| **SBC8-681-102** | 680±10% | 0.52 | 1.00 | 1.40 | 1.30 | ○ | |
| **SBC8-102-761** | 1000±10% | 0.78 | 0.76 | 1.00 | 1.10 | ○ | |
| **SBC8-152-581** | 1500±10% | 1.30 | 0.58 | 0.81 | 0.92 | | ○ |
| **SBC8-222-471** | 2200±10% | 1.80 | 0.47 | 0.67 | 0.78 | | ○ |
| **SBC8-332-421** | 3300±10% | 2.50 | 0.42 | 0.58 | 0.63 | | ○ |
| **SBC8-472-391** | 4700±10% | 3.20 | 0.39 | 0.54 | 0.53 | | ○ |
| **SBC8-682-311** | 6800±10% | 4.90 | 0.31 | 0.43 | 0.44 | | ○ |
| **SBC8-103-251** | 10000±10% | 6.90 | 0.25 | 0.35 | 0.36 | | ○ |

Package: Soft lead · bulk 900pcs/box
Pin lead · bulk 1,000pcs/box

●SBC9Series (SBC9-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20℃ | Current (Reference value) (A) ΔT=40℃ | Current (Reference value) (A) L change rate−10% | Terminal Soft lead | Terminal Pin lead |
|---|---|---|---|---|---|---|---|
| **SBC9-1R0-982** | 1.0±20% | 0.01 | 9.80 | 13.70 | 31.10 | ○ | |
| **SBC9-1R5-942** | 1.5±20% | 0.01 | 9.40 | 13.10 | 25.40 | ○ | |
| **SBC9-2R2-792** | 2.2±20% | 0.01 | 7.90 | 11.00 | 21.50 | ○ | |
| **SBC9-3R3-622** | 3.3±20% | 0.02 | 6.20 | 8.60 | 16.40 | ○ | |
| **SBC9-4R7-562** | 4.7±20% | 0.02 | 5.60 | 7.80 | 14.70 | ○ | |
| **SBC9-6R8-492** | 6.8±20% | 0.03 | 4.90 | 6.80 | 12.10 | ○ | |
| **SBC9-100-422** | 10±20% | 0.03 | 4.20 | 5.80 | 9.60 | ○ | |
| **SBC9-150-362** | 15±20% | 0.04 | 3.60 | 5.00 | 7.50 | ○ | |
| **SBC9-220-312** | 22±20% | 0.04 | 3.10 | 4.30 | 6.20 | ○ | |
| **SBC9-330-252** | 33±20% | 0.06 | 2.50 | 3.50 | 5.20 | ○ | |
| **SBC9-470-202** | 47±10% | 0.09 | 2.00 | 2.80 | 4.30 | ○ | |
| **SBC9-680-152** | 68±10% | 0.15 | 1.50 | 2.10 | 3.70 | ○ | |
| **SBC9-101-122** | 100±10% | 0.21 | 1.20 | 1.60 | 3.00 | ○ | |
| **SBC9-151-112** | 150±10% | 0.26 | 1.10 | 1.50 | 2.40 | ○ | |
| **SBC9-221-821** | 220±10% | 0.41 | 0.82 | 1.10 | 2.00 | ○ | |
| **SBC9-331-671** | 330±10% | 0.58 | 0.67 | 0.93 | 1.60 | ○ | |
| **SBC9-471-601** | 470±10% | 0.82 | 0.60 | 0.84 | 1.30 | | ○ |
| **SBC9-681-551** | 680±10% | 1.05 | 0.55 | 0.77 | 1.10 | | ○ |
| **SBC9-102-451** | 1000±10% | 1.53 | 0.45 | 0.63 | 0.87 | | ○ |
| **SBC9-152-341** | 1500±10% | 2.49 | 0.34 | 0.47 | 0.72 | | ○ |
| **SBC9-222-271** | 2200±10% | 3.78 | 0.27 | 0.38 | 0.60 | | ○ |
| **SBC9-332-221** | 3300±10% | 5.68 | 0.22 | 0.31 | 0.48 | | ○ |
| **SBC9-472-181** | 4700±10% | 8.20 | 0.18 | 0.25 | 0.40 | | ○ |
| **SBC9-682-141** | 6800±10% | 12.70 | 0.14 | 0.20 | 0.34 | | ○ |
| **SBC9-103-121** | 10000±10% | 16.10 | 0.12 | 0.17 | 0.28 | | ○ |

Package: Bulk 2,000pcs/box
●Operating temperature range: −20 to +105℃ (Including self-temperature rise)



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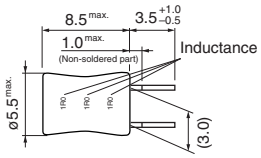
9631PWIVOL10E1205E0

**Shape and Dimensions**

## ●SBC1Series (SBC1-□□□-○○○)

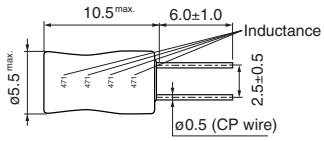
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC1-1R0-312** | ø0.30 |
| **SBC1-1R5-292** | ø0.30 |
| **SBC1-2R2-272** | ø0.30 |
| **SBC1-3R3-232** | ø0.30 |
| **SBC1-4R7-202** | ø0.30 |
| **SBC1-6R8-182** | ø0.30 |
| **SBC1-100-172** | ø0.30 |
| **SBC1-150-162** | ø0.30 |
| **SBC1-220-132** | ø0.28 |
| **SBC1-330-102** | ø0.24 |

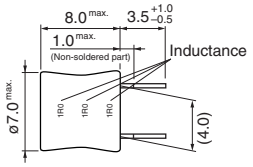
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

## ●SBC2Series (SBC2-□□□-○○○)

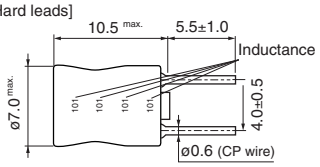
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC2-1R0-612** | ø0.60 |
| **SBC2-1R5-402** | ø0.50 |
| **SBC2-3R3-352** | ø0.45 |
| **SBC2-4R7-262** | ø0.40 |
| **SBC2-6R8-242** | ø0.40 |
| **SBC2-100-212** | ø0.40 |
| **SBC2-150-162** | ø0.35 |
| **SBC2-220-132** | ø0.32 |
| **SBC2-330-112** | ø0.28 |
| **SBC2-470-951** | ø0.28 |
| **SBC2-680-871** | ø0.28 |

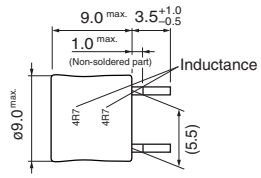
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

## ●SBC3Series (SBC3-□□□-○○○)

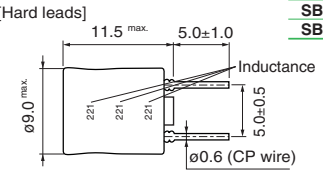
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC3-1R2-752** | ø0.80 |
| **SBC3-1R5-632** | ø0.70 |
| **SBC3-2R2-602** | ø0.70 |
| **SBC3-3R3-472** | ø0.60 |
| **SBC3-4R7-422** | ø0.60 |
| **SBC3-6R8-392** | ø0.60 |
| **SBC3-100-362** | ø0.60 |
| **SBC3-150-232** | ø0.50 |
| **SBC3-220-202** | ø0.45 |
| **SBC3-330-172** | ø0.40 |
| **SBC3-470-142** | ø0.40 |
| **SBC3-680-112** | ø0.35 |
| **SBC3-101-961** | ø0.32 |
| **SBC3-151-791** | ø0.30 |

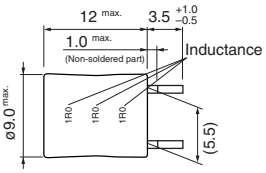
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

## ●SBC4Series (SBC4-□□□-○○○)

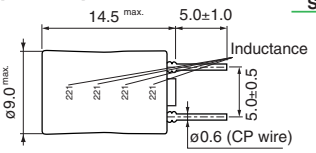
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC4-1R0-742** | ø0.80 |
| **SBC4-1R5-712** | ø0.80 |
| **SBC4-2R7-662** | ø0.80 |
| **SBC4-3R3-642** | ø0.80 |
| **SBC4-4R7-582** | ø0.70 |
| **SBC4-6R8-452** | ø0.60 |
| **SBC4-100-292** | ø0.50 |
| **SBC4-150-232** | ø0.45 |
| **SBC4-220-202** | ø0.45 |
| **SBC4-330-182** | ø0.45 |
| **SBC4-470-162** | ø0.45 |
| **SBC4-680-122** | ø0.35 |
| **SBC4-101-102** | ø0.32 |
| **SBC4-151-861** | ø0.32 |

[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

[mm]



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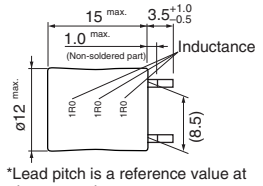
9631PWIVOL10E1205E0

## Shape and Dimensions

### ●SBC6Series (SBC6-□□□-○○○)

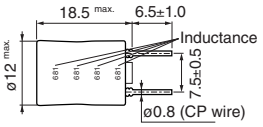
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC6-1R0-962** | ø1.20 |
| **SBC6-1R5-942** | ø1.20 |
| **SBC6-2R7-872** | ø1.20 |
| **SBC6-3R3-852** | ø1.20 |
| **SBC6-4R7-802** | ø1.20 |
| **SBC6-6R8-662** | ø1.00 |
| **SBC6-100-462** | ø0.80 |
| **SBC6-150-382** | ø0.70 |
| **SBC6-220-302** | ø0.60 |
| **SBC6-330-272** | ø0.60 |
| **SBC6-470-232** | ø0.60 |
| **SBC6-680-222** | ø0.60 |
| **SBC6-101-172** | ø0.55 |
| **SBC6-151-122** | ø0.45 |
| **SBC6-221-112** | ø0.40 |
| **SBC6-331-871** | ø0.40 |
| **SBC6-471-701** | ø0.35 |

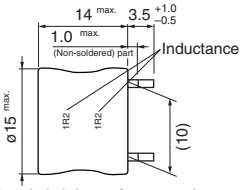
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

### ●SBC7Series (SBC7-□□□-○○○)

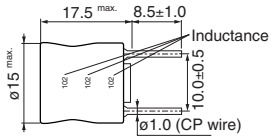
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC7-6R8-612** | ø0.90 |
| **SBC7-100-532** | ø0.90 |
| **SBC7-150-482** | ø0.90 |
| **SBC7-220-432** | ø0.90 |
| **SBC7-330-342** | ø0.80 |
| **SBC7-470-282** | ø0.70 |
| **SBC7-680-222** | ø0.60 |
| **SBC7-101-192** | ø0.60 |
| **SBC7-151-172** | ø0.60 |
| **SBC7-221-132** | ø0.50 |
| **SBC7-331-941** | ø0.40 |
| **SBC7-471-851** | ø0.40 |
| **SBC7-681-701** | ø0.35 |

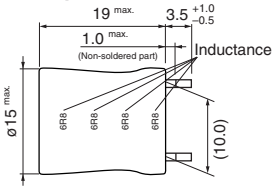
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

### ●SBC8Series (SBC8-□□□-○○○)

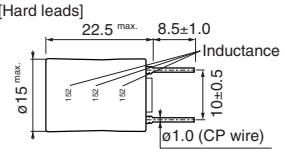
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC8-6R8-862** | ø1.20 |
| **SBC8-100-692** | ø1.00 |
| **SBC8-150-532** | ø0.90 |
| **SBC8-220-492** | ø0.90 |
| **SBC8-330-452** | ø0.90 |
| **SBC8-470-372** | ø0.90 |
| **SBC8-680-322** | ø0.80 |
| **SBC8-101-242** | ø0.70 |
| **SBC8-151-202** | ø0.60 |
| **SBC8-221-182** | ø0.60 |
| **SBC8-331-142** | ø0.55 |
| **SBC8-471-112** | ø0.45 |
| **SBC8-681-102** | ø0.45 |
| **SBC8-102-761** | ø0.40 |

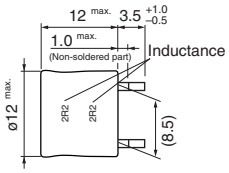
[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

### ●SBC9Series (SBC9-□□□-○○○)

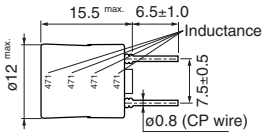
[Soft leads]




*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

| Model | Lead diam. |
|---|---|
| **SBC9-1R0-982** | ø1.20 |
| **SBC9-1R5-942** | ø1.20 |
| **SBC9-2R2-792** | ø1.00 |
| **SBC9-3R3-622** | ø0.90 |
| **SBC9-4R7-562** | ø0.80 |
| **SBC9-6R8-492** | ø0.70 |
| **SBC9-100-422** | ø0.70 |
| **SBC9-150-362** | ø0.70 |
| **SBC9-220-312** | ø0.70 |
| **SBC9-330-252** | ø0.60 |
| **SBC9-470-202** | ø0.55 |
| **SBC9-680-152** | ø0.45 |
| **SBC9-101-122** | ø0.40 |
| **SBC9-151-112** | ø0.40 |
| **SBC9-221-821** | ø0.35 |
| **SBC9-331-671** | ø0.32 |

[Hard leads]




*Lead pitch is a value at the root end.
*With phenolic resin base.

[mm]

## Numbering System

**SBC** ① **1** - ② **101** - ③ **571** - ④

| Model | Core size [mm] |
|---|---|
| **SBC1 Series** | ø4.5× 6.5 |
| **SBC2 Series** | ø6.0× 6.0 |
| **SBC3 Series** | ø8.0× 7.0 |
| **SBC4 Series** | ø8.0×10.0 |
| **SBC6 Series** | ø11.0×13.0 |
| **SBC7 Series** | ø14.0×12.0 |
| **SBC8 Series** | ø14.0×17.0 |
| **SBC9 Series** | ø11.0×10.0 |

① Series
② Core size
**Model numbers and Core sizes**
The model numbers are classified according to core size as shown below.

③ Inductance: $10 \times 10^{1} = 100\ (\mu H)$

④ Rated current: $57 \times 10^{1} = 570\ (mA)$

*The presence of an external tube may not be indicated on the surface of sample products.



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9631PWIVOL10E1205E0

# SBCP-47HY Coils

## [RoHS Compliant]

●SBCP-47HY Series (SBCP-47HY□□□B)

| Model | Inductance at 10 kHz、1mA (μH) | DC resistance (Ω) max. | Rated current (A) | Current (Reference value) (A) | | |
|---|---|---|---|---|---|---|
| | | | | ΔT=20℃ | ΔT=40℃ | L−10% (85℃) |
| **SBCP-47HY1R2B** | 1.2±20% | 21m | 3.00 | 3.02 | 4.26 | 4.16 |
| **SBCP-47HY1R5B** | 1.5±20% | 24m | 2.85 | 2.85 | 4.01 | 3.67 |
| **SBCP-47HY2R2B** | 2.2±20% | 29m | 2.60 | 2.59 | 3.66 | 3.20 |
| **SBCP-47HY2R7B** | 2.7±20% | 32m | 2.45 | 2.47 | 3.48 | 2.92 |
| **SBCP-47HY3R3B** | 3.3±20% | 37m | 2.30 | 2.28 | 3.21 | 2.70 |
| **SBCP-47HY3R9B** | 3.9±20% | 40m | 2.15 | 2.18 | 3.08 | 2.51 |
| **SBCP-47HY4R7B** | 4.7±20% | 43m | 2.10 | 2.10 | 2.96 | 2.30 |
| **SBCP-47HY5R6B** | 5.6±20% | 49m | 1.95 | 1.99 | 2.80 | 2.04 |
| **SBCP-47HY6R8B** | 6.8±20% | 52m | 1.90 | 1.92 | 2.71 | 1.93 |
| **SBCP-47HY8R2B** | 8.2±20% | 59m | 1.70 | 1.81 | 2.55 | 1.74 |
| **SBCP-47HY100B** | 10±20% | 67m | 1.60 | 1.69 | 2.38 | 1.60 |
| **SBCP-47HY120B** | 12±20% | 76m | 1.40 | 1.59 | 2.24 | 1.41 |
| **SBCP-47HY150B** | 15±20% | 87m | 1.25 | 1.48 | 2.09 | 1.26 |
| **SBCP-47HY220B** | 22±20% | 123m | 1.05 | 1.24 | 1.75 | 1.04 |
| **SBCP-47HY270B** | 27±20% | 137m | 0.96 | 1.18 | 1.66 | 0.96 |
| **SBCP-47HY330B** | 33±20% | 169m | 0.87 | 1.06 | 1.50 | 0.87 |
| **SBCP-47HY390B** | 39±20% | 213m | 0.79 | 1.95 | 1.33 | 0.79 |
| **SBCP-47HY470B** | 47±10% | 267m | 0.73 | 0.84 | 1.19 | 0.73 |
| **SBCP-47HY560B** | 56±10% | 350m | 0.65 | 0.65 | 0.87 | 0.66 |
| **SBCP-47HY680B** | 68±10% | 397m | 0.60 | 0.61 | 0.81 | 0.60 |
| **SBCP-47HY820B** | 82±10% | 519m | 0.53 | 0.53 | 0.71 | 0.55 |
| **SBCP-47HY101B** | 100±10% | 584m | 0.50 | 0.50 | 0.67 | 0.50 |
| **SBCP-47HY121B** | 120±10% | 657m | 0.45 | 0.47 | 0.63 | 0.45 |
| **SBCP-47HY151B** | 150±10% | 878m | 0.41 | 0.41 | 0.55 | 0.41 |
| **SBCP-47HY221B** | 220±10% | 1.10 | 0.33 | 0.36 | 0.48 | 0.33 |
| **SBCP-47HY271B** | 270±10% | 1.30 | 0.30 | 0.34 | 0.45 | 0.30 |
| **SBCP-47HY331B** | 330±10% | 1.80 | 0.27 | 0.29 | 0.39 | 0.27 |
| **SBCP-47HY391B** | 390±10% | 2.00 | 0.25 | 0.26 | 0.36 | 0.25 |
| **SBCP-47HY471B** | 470±10% | 2.80 | 0.22 | 0.22 | 0.31 | 0.23 |
| **SBCP-47HY561B** | 560±10% | 3.10 | 0.21 | 0.21 | 0.29 | 0.21 |
| **SBCP-47HY681B** | 680±10% | 3.50 | 0.19 | 0.20 | 0.28 | 0.19 |
| **SBCP-47HY821B** | 820±10% | 5.30 | 0.16 | 0.16 | 0.22 | 0.17 |
| **SBCP-47HY102B** | 1000±10% | 6.00 | 0.15 | 0.15 | 0.21 | 0.16 |

Package: Bulk · 6,000pcs/box
Tape & reel · 1,000pcs/AMMO pack 4,000pcs/box
Operating temperature range: −20 to +105℃ (including the heat generation by the coil)



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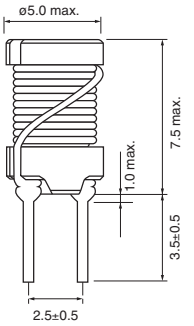
### Shape and Dimensions




*Lead: hard copper wire (ø0.5)

[mm]

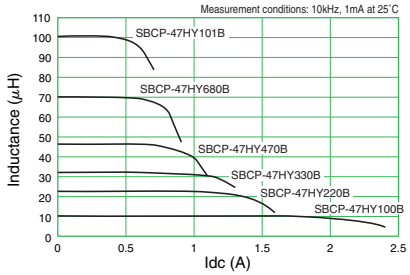
### Numbering System

**SBCP - 47HY 150 B**
① ② ③ ④

① Series
② Core size : Outer size x height （φ4.5×7）

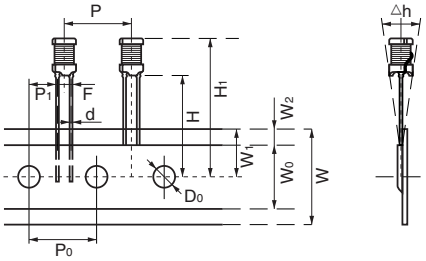
③ Inductance : 15×10⁰=15（μH）
④ Packaging type : (B) indicates bulk type.
No indication for tape type.

### DC-Superposed Characteristics




## SBCP-47HY Series

### Dimensions of indented square hole plastic tape




[mm]

| P | $P_0$ | $P_1$ | F | W | $W_0$ | $W_1$ | $W_2$ | H | $H_1$ | $D_0$ | d | Δh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ±1.0 | ±0.3 | ±0.7 | ±0.5 | +1.0, −0.5 | min. | +0.75, −0.5 | max. | +2.0, −0 | max. | ±0.2 | | ±2.0 |
| 12.7 | 12.7 | 5.1 | 2.5 | 18 | 12.5 | 9.0 | 3.0 | 18 | 29.5 | ø4.0 | ø0.5 | 0 |



⚠
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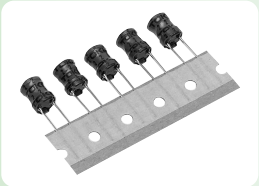
9631PWIVOL10E1205E0

# SBCP-87HY Coils

## [RoHS Compliant]



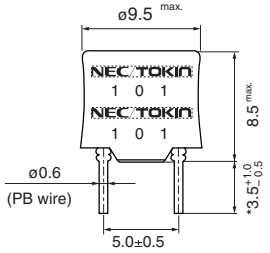
●SBCP-87HY Series (SBCP-87HY□□□H)

| Model | Inductance at 10 kHz, 1mA L (μH) | DC resistance (Ω) max. | Rated current (A) ΔT=20℃ | Current (Reference value) (A) ΔT=40℃ | Current (Reference value) (A) L change rate-10% |
|---|---|---|---|---|---|
| **SBCP-87HY1R0H** | 1.0±30% | 0.02 | 4.50 | 6.30 | 10.20 |
| **SBCP-87HY1R5H** | 1.5±30% | 0.02 | 4.20 | 5.80 | 7.00 |
| **SBCP-87HY2R2H** | 2.2±30% | 0.03 | 4.00 | 5.60 | 6.10 |
| **SBCP-87HY3R3H** | 3.3±30% | 0.03 | 3.20 | 4.40 | 4.80 |
| **SBCP-87HY4R7H** | 4.7±20% | 0.03 | 3.20 | 4.40 | 4.30 |
| **SBCP-87HY6R8H** | 6.8±20% | 0.04 | 2.80 | 3.90 | 3.40 |
| **SBCP-87HY100H** | 10±20% | 0.05 | 2.30 | 3.20 | 2.40 |
| **SBCP-87HY150H** | 15±20% | 0.06 | 2.10 | 2.90 | 2.20 |
| **SBCP-87HY220H** | 22±20% | 0.08 | 1.90 | 2.60 | 1.80 |
| **SBCP-87HY330H** | 33±20% | 0.12 | 1.50 | 2.10 | 1.50 |
| **SBCP-87HY470H** | 47±20% | 0.15 | 1.30 | 1.80 | 1.20 |
| **SBCP-87HY680H** | 68±10% | 0.19 | 1.16 | 1.60 | 1.00 |
| **SBCP-87HY820H** | 82±10% | 0.23 | 1.10 | 1.50 | 0.94 |
| **SBCP-87HY101H** | 100±10% | 0.30 | 0.90 | 1.20 | 0.87 |
| **SBCP-87HY151H** | 150±10% | 0.39 | 0.79 | 1.10 | 0.70 |
| **SBCP-87HY221H** | 220±10% | 0.57 | 0.65 | 0.91 | 0.57 |
| **SBCP-87HY331H** | 330±10% | 0.92 | 0.50 | 0.70 | 0.47 |
| **SBCP-87HY471H** | 470±10% | 1.30 | 0.42 | 0.58 | 0.39 |
| **SBCP-87HY681H** | 680±10% | 1.66 | 0.33 | 0.46 | 0.32 |
| **SBCP-87HY102H** | 1000±10% | 2.82 | 0.25 | 0.35 | 0.27 |

Package: Soft lead · bulk 4,000pcs/box
Pin lead · bulk 500pcs/AMMO pack, 2,000pcs/box

### Shape and Dimensions

●SBCP-87HY Series (SBCP-87HY□□□H)




* For bulk type
* Lead pitch is value at the root end. [mm]

### Numbering System

**SBCP** - **87HY** - **101** **H** **B**
① ② ③ ④ ⑤

① Series
② Core size (Outer size x height)
**Model numbers and Core sizes**
The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---|---|
| **SBCP-87HY**□□□H | ø8.0 × 7.5 |

③ Inductance: 10×10¹=100 (μH)
④ Presence of external tube: H shows presence.
⑤ Packaging type: No indication for tape type. :B; indicates bulk type.

*The presence of an external tube may not be indicated on the surface of sample products.



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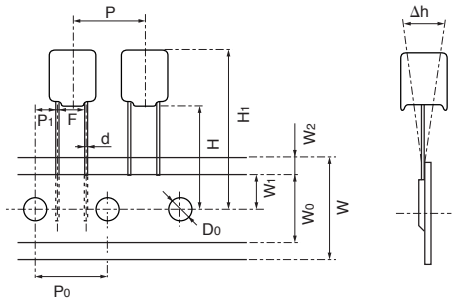
## SBCP-87HY Series

**Dimensions of indented square hole plastic tape**




[mm]

| P | $P_0$ | $P_1$ | F | W | $W_0$ | $W_1$ | $W_2$ | H | $D_0$ | d | Δh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, −0.5 | min. | +0.75, −0.5 | max. | +2.0, −0 | ±0.2 | | ±2.0 |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ø4.0 | 0.6 | 0 |

[mm]

| H1 |
|---|
| SBCP-87HY□□□H |
| max. |
| 28.5 |



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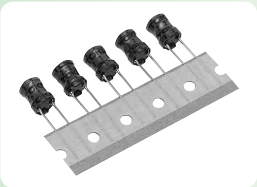
9631PWIVOL10E1205E0

# SBCP-80HY Coils

## [RoHS Compliant]



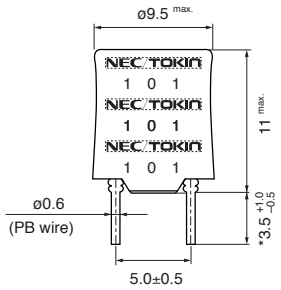
●SBCP-80HY Series (SBCP-80HY□□□H)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | |
|---|---|---|---|---|---|
| | | | | ΔT=40°C | L change rate−10% |
| **SBCP-80HY1R5H** | 1.5±30% | 0.02 | 4.50 | 6.30 | 13.50 |
| **SBCP-80HY2R2H** | 2.2±30% | 0.03 | 4.00 | 5.60 | 11.70 |
| **SBCP-80HY3R3H** | 3.3±30% | 0.04 | 3.60 | 5.00 | 9.20 |
| **SBCP-80HY4R7H** | 4.7±20% | 0.04 | 3.30 | 4.60 | 7.60 |
| **SBCP-80HY6R8H** | 6.8±20% | 0.05 | 3.30 | 4.60 | 6.50 |
| **SBCP-80HY100H** | 10±20% | 0.05 | 2.90 | 4.00 | 5.30 |
| **SBCP-80HY150H** | 15±20% | 0.08 | 2.50 | 3.50 | 4.00 |
| **SBCP-80HY220H** | 22±20% | 0.08 | 2.40 | 3.30 | 3.40 |
| **SBCP-80HY330H** | 33±20% | 0.09 | 2.10 | 2.90 | 2.70 |
| **SBCP-80HY470H** | 47±10% | 0.13 | 1.90 | 2.60 | 2.20 |
| **SBCP-80HY680H** | 68±10% | 0.16 | 1.70 | 2.30 | 1.80 |
| **SBCP-80HY820H** | 82±10% | 0.24 | 1.30 | 1.80 | 1.70 |
| **SBCP-80HY101H** | 100±10% | 0.35 | 1.10 | 1.50 | 1.60 |
| **SBCP-80HY151H** | 150±10% | 0.41 | 1.00 | 1.40 | 1.20 |
| **SBCP-80HY221H** | 220±10% | 0.52 | 0.90 | 1.20 | 1.00 |
| **SBCP-80HY331H** | 330±10% | 0.75 | 0.70 | 0.98 | 0.85 |
| **SBCP-80HY471H** | 470±10% | 0.95 | 0.65 | 0.91 | 0.71 |
| **SBCP-80HY681H** | 680±10% | 1.40 | 0.50 | 0.70 | 0.58 |
| **SBCP-80HY102H** | 1000±10% | 1.89 | 0.40 | 0.56 | 0.48 |

Package: Bulk · 4,000pcs/box
Tape & reel · 500pcs/AMMO pack 2,000pcs/box

### Shape and Dimensions

●SBCP-80HY Series (SBCP-80HY□□□H)




* For bulk type
* Lead pitch is value at the root end.

[mm]

### Numbering System

**SBCP - 80HY - 101 H B**
① ② ③ ④ ⑤

① Series
② Core size (Outer size x height)
**Model numbers and Core sizes**
The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---|---|
| **SBCP-80HY□□□H** | ø8.0 × 10.0 |

③ Inductance: 10×10¹=100 (μH)
④ Presence of external tube: H shows presence.
⑤ Packaging type: No indication for tape type. :B; indicates bulk type.

*The presence of an external tube may not be indicated on the surface of sample products.



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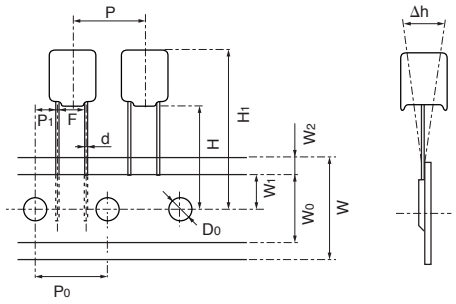
9631PWIVOL10E1205E0

## SBCP-80HY Series

**Dimensions of indented square hole plastic tape**




[mm]

| P | $P_0$ | $P_1$ | F | W | $W_0$ | $W_1$ | $W_2$ | H | $D_0$ | d | Δh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, −0.5 | min. | +0.75, −0.5 | max. | +2.0, −0 | ±0.2 | | ±2.0 |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ø4.0 | 0.6 | 0 |

[mm]

| H1 |
|---|
| SBCP-80HY□□□ H |
| max. |
| 31 |



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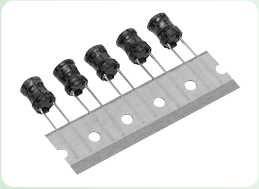
9631PWIVOL10E1205E0

# SBCP-11HY Coils

## [RoHS Compliant]



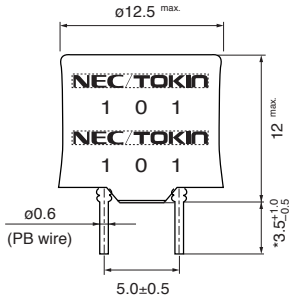
●SBCP-11HY Series (SBCP-11HY□□□H)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | |
|---|---|---|---|---|---|
| | | | | ΔT=40°C | L change rate-10% |
| **SBCP-11HY1R5H** | 1.5±30% | 0.02 | 5.00 | 7.20 | 25.30 |
| **SBCP-11HY2R2H** | 2.2±30% | 0.02 | 4.70 | 6.70 | 21.40 |
| **SBCP-11HY3R3H** | 3.3±20% | 0.02 | 4.40 | 6.30 | 18.50 |
| **SBCP-11HY4R7H** | 4.7±20% | 0.03 | 4.10 | 5.80 | 14.60 |
| **SBCP-11HY6R8H** | 6.8±20% | 0.03 | 3.60 | 5.10 | 12.10 |
| **SBCP-11HY100H** | 10±20% | 0.04 | 3.10 | 4.50 | 9.60 |
| **SBCP-11HY150H** | 15±20% | 0.05 | 2.80 | 4.10 | 7.90 |
| **SBCP-11HY220H** | 22±20% | 0.06 | 2.50 | 3.60 | 6.40 |
| **SBCP-11HY330H** | 33±20% | 0.07 | 2.30 | 3.30 | 5.40 |
| **SBCP-11HY470H** | 47±20% | 0.10 | 2.00 | 2.90 | 4.40 |
| **SBCP-11HY680H** | 68±10% | 0.12 | 1.80 | 2.60 | 3.60 |
| **SBCP-11HY101H** | 100±10% | 0.19 | 1.30 | 1.90 | 3.00 |
| **SBCP-11HY151H** | 150±10% | 0.26 | 1.10 | 1.60 | 2.40 |
| **SBCP-11HY221H** | 220±10% | 0.40 | 0.95 | 1.30 | 2.00 |
| **SBCP-11HY331H** | 330±10% | 0.60 | 0.74 | 1.00 | 1.60 |
| **SBCP-11HY471H** | 470±10% | 0.76 | 0.66 | 0.93 | 1.40 |
| **SBCP-11HY681H** | 680±10% | 1.00 | 0.55 | 0.77 | 1.10 |
| **SBCP-11HY102H** | 1000±10% | 1.70 | 0.42 | 0.60 | 0.96 |

Package: Bulk · 2,000pcs/box
- Tape & reel · 400pcs/AMMO pack 1,600pcs/box
- Operating temperature range: −20 to +105℃ (incl. coil heat)
- Storage conditions: −5 to +40℃, 40to60% RH (in tape status), −20to + 85℃ (in bulk status)
- Do NOT expose to direct sunlight

### Shape and Dimensions

●SBCP-11HY Series (SBCP-11HY□□□H)




* For bulk type
* Lead pitch is value at the root end.

[mm]

### Numbering System

**SBCP - 11HY - 101 H B**
① ② ③ ④ ⑤

① Series
② Core size (Outer size x height)

**Model numbers and Core sizes**

The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---|---|
| **SBCP-11HY**□□□H | ø11.0×11.0 |

③ Inductance: 10×10¹=100 (μH)
④ Presence of external tube: H shows presence.
⑤ Packaging type: No indication for tape type. :B; indicates bulk type.

*The presence of an external tube may not be indicated on the surface of sample products.



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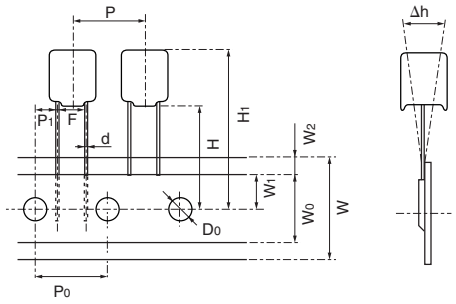
## SBCP-11HY Series

**Dimensions of indented square hole plastic tape**




[mm]

| P | $P_0$ | $P_1$ | F | W | $W_0$ | $W_1$ | $W_2$ | H | $D_0$ | d | Δh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, −0.5 | min. | +0.75, −0.5 | max. | +2.0, −0 | ±0.2 | | ±2.0 |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ø4.0 | 0.6 | 0 |

[mm]

| H1 |
|---|
| SBCP-11HY□□□H |
| max. |
| 32 |



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9631PWIVOL10E1205E0

# SBCP-14HY Coils

## [RoHS Compliant]

●SBCP-14 HY Series (SBCP-14HY□□□B)

| Model | Inductance at 10 kHz, 1mA (μH) | DC resistance (Ω) max. | Rated current (A) ΔT=20℃ | Current (Reference value) (A) ΔT=40℃ | Current (Reference value) (A) L change rate-10% |
|---|---|---|---|---|---|
| **SBCP-14HY1R2B** | 1.2±30% | 20m | 5.20 | 7.40 | 24.30 |
| **SBCP-14HY2R2B** | 2.2±30% | 20m | 4.35 | 5.11 | 16.82 |
| **SBCP-14HY3R3B** | 3.3±30% | 20m | 4.10 | 6.00 | 18.20 |
| **SBCP-14HY4R7B** | 4.7±20% | 30m | 3.60 | 5.07 | 14.36 |
| **SBCP-14HY6R8B** | 6.8±20% | 30m | 3.35 | 4.69 | 11.86 |
| **SBCP-14HY100B** | 10±20% | 40m | 3.00 | 4.20 | 10.30 |
| **SBCP-14HY150B** | 15±20% | 50m | 2.80 | 3.90 | 8.07 |
| **SBCP-14HY220B** | 22±20% | 60m | 2.70 | 3.73 | 6.94 |
| **SBCP-14HY330B** | 33±20% | 70m | 2.40 | 3.30 | 5.63 |
| **SBCP-14HY470B** | 47±10% | 90m | 1.90 | 2.74 | 4.58 |
| **SBCP-14HY680B** | 68±10% | 0.11 | 1.70 | 2.45 | 3.76 |
| **SBCP-14HY101B** | 100±10% | 0.14 | 1.50 | 2.15 | 3.10 |
| **SBCP-14HY151B** | 150±10% | 0.20 | 1.30 | 1.85 | 2.70 |
| **SBCP-14HY221B** | 220±10% | 0.31 | 1.05 | 1.51 | 2.20 |
| **SBCP-14HY331B** | 330±10% | 0.38 | 0.95 | 1.35 | 1.84 |
| **SBCP-14HY471B** | 470±10% | 0.54 | 0.80 | 1.10 | 1.48 |
| **SBCP-14HY681B** | 680±10% | 0.90 | 0.67 | 0.93 | 1.24 |
| **SBCP-14HY102B** | 1000±10% | 1.16 | 0.59 | 0.82 | 1.01 |
| **SBCP-14HY152B** | 1500±10% | 1.52 | 0.47 | 0.67 | 0.80 |
| **SBCP-14HY222B** | 2200±10% | 2.36 | 0.38 | 0.54 | 0.69 |
| **SBCP-14HY332B** | 3300±10% | 3.42 | 0.33 | 0.46 | 0.57 |
| **SBCP-14HY472B** | 4700±10% | 4.97 | 0.27 | 0.38 | 0.48 |
| **SBCP-14HY682B** | 6800±10% | 7.17 | 0.22 | 0.29 | 0.38 |
| **SBCP-14HY103B** | 10000±10% | 10.86 | 0.17 | 0.24 | 0.31 |

Package: Bulk · 1,500pcs/box
●Operating temperature range:−20 to +105℃(including the heat generation by the coil)



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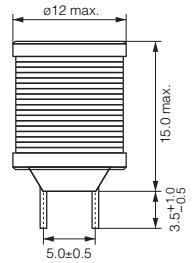
9631PWIVOL10E1205E0

### Shape and Dimensions




*Lead: hard copper wire (ø0.6)

[mm]

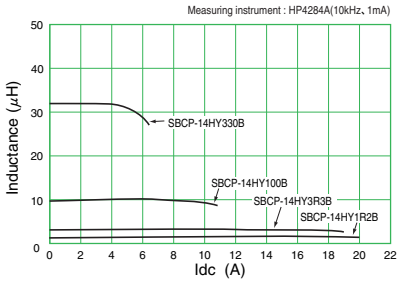
### Numbering System

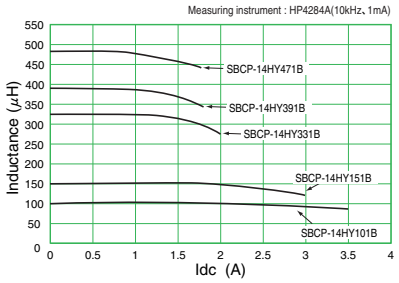
**SBCP - 14HY 100 B**
① ② ③ ④

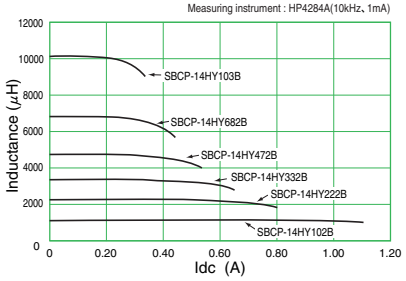
① Series
② Core size : Outer size x height (φ11×14)

③ Inductance : 10×10⁰=10 (μH)
④ Packaging type : [B] indicates bulk type.

### DC-Superposed Characteristics



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9631PWIVOL10E1205E0

# SBPSC Coils
# 11R310·12R817 Series
## 〈Magnetically Shielded Type〉
## [RoHS Compliant]

●SBPSC-11R310 Series

| Model | Inductance (μH) (100kHz.1mA) | | DC resistance (Ω) max. | Reted Current (A) |
|---|---|---|---|---|
| **SBPSC-11R310-100A** | 10 | ±20% | 36m | 3.80 |
| **SBPSC-11R310-120A** | 12 | ±20% | 48m | 3.40 |
| **SBPSC-11R310-150A** | 15 | ±20% | 51m | 3.30 |
| **SBPSC-11R310-220A** | 22 | ±20% | 87m | 2.85 |
| **SBPSC-11R310-270A** | 27 | ±20% | 106m | 2.40 |
| **SBPSC-11R310-330A** | 33 | ±20% | 132m | 2.10 |
| **SBPSC-11R310-390A** | 39 | ±20% | 141m | 2.05 |
| **SBPSC-11R310-470A** | 47 | ±20% | 181m | 1.80 |
| **SBPSC-11R310-560A** | 56 | ±20% | 200m | 1.75 |
| **SBPSC-11R310-680A** | 68 | ±20% | 221m | 1.65 |
| **SBPSC-11R310-820A** | 82 | ±20% | 251m | 1.55 |
| **SBPSC-11R310-101A** | 100 | ±15% | 272m | 1.45 |
| **SBPSC-11R310-121A** | 120 | ±15% | 299m | 1.40 |
| **SBPSC-11R310-151A** | 150 | ±15% | 390m | 1.15 |
| **SBPSC-11R310-221A** | 220 | ±15% | 736m | 0.94 |
| **SBPSC-11R310-271A** | 270 | ±15% | 839m | 0.88 |
| **SBPSC-11R310-331A** | 330 | ±15% | 936m | 0.84 |
| **SBPSC-11R310-391A** | 390 | ±15% | 1.20 | 0.74 |
| **SBPSC-11R310-471A** | 470 | ±15% | 1.40 | 0.70 |
| **SBPSC-11R310-681A** | 680 | ±15% | 2.00 | 0.48 |
| **SBPSC-11R310-821A** | 820 | ±15% | 2.30 | 0.46 |
| **SBPSC-11R310-102A** | 1000 | ±15% | 2.60 | 0.43 |

Package: Bulk・1,600pcs/box

●SBPSC-12R817 Series

| Model | Inductance (μH) (100kHz.1mA) | | DC resistance (Ω) max. | Reted Current (A) |
|---|---|---|---|---|
| **SBPSC-12R817-100A** | 10 | ±20% | 29m | 4.70 |
| **SBPSC-12R817-120A** | 12 | ±20% | 32m | 4.40 |
| **SBPSC-12R817-150A** | 15 | ±20% | 35m | 4.20 |
| **SBPSC-12R817-220A** | 22 | ±20% | 43m | 3.90 |
| **SBPSC-12R817-270A** | 27 | ±20% | 48m | 3.60 |
| **SBPSC-12R817-330A** | 33 | ±20% | 52m | 3.50 |
| **SBPSC-12R817-390A** | 39 | ±20% | 58m | 3.30 |
| **SBPSC-12R817-470A** | 47 | ±20% | 61m | 3.20 |
| **SBPSC-12R817-560A** | 56 | ±20% | 66m | 3.10 |
| **SBPSC-12R817-680A** | 68 | ±20% | 75m | 2.90 |
| **SBPSC-12R817-820A** | 82 | ±20% | 96m | 2.50 |
| **SBPSC-12R817-101A** | 100 | ±15% | 0.14 | 2.40 |
| **SBPSC-12R817-121A** | 120 | ±15% | 0.18 | 2.20 |
| **SBPSC-12R817-151A** | 150 | ±15% | 0.26 | 1.65 |
| **SBPSC-12R817-221A** | 220 | ±15% | 0.40 | 1.40 |
| **SBPSC-12R817-271A** | 270 | ±15% | 0.47 | 1.30 |
| **SBPSC-12R817-331A** | 330 | ±15% | 0.53 | 1.20 |
| **SBPSC-12R817-391A** | 390 | ±15% | 0.57 | 1.15 |
| **SBPSC-12R817-471A** | 470 | ±15% | 0.62 | 1.10 |
| **SBPSC-12R817-561A** | 560 | ±15% | 0.70 | 1.00 |
| **SBPSC-12R817-681A** | 680 | ±15% | 0.84 | 0.90 |
| **SBPSC-12R817-821A** | 820 | ±15% | 0.94 | 0.80 |
| **SBPSC-12R817-102A** | 1000 | ±15% | 1.10 | 0.70 |

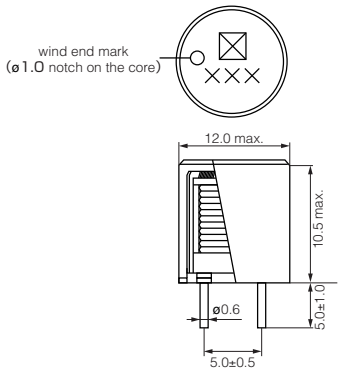
Package: Bulk・800pcs/box

*The rated current is the lower value of the following two: the DC curent value when the inductance decreases 10% from the initial value , or the DC current value when the coil's temperature has rose ΔT=40˚C

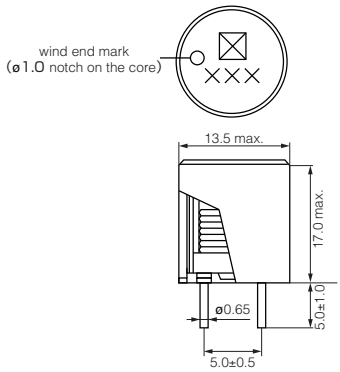
●Operating temperature range: –20 to +105˚C (Incl. coil heat)

### Shape and Dimensions

●SBPSC-11R310 Series




●SBPSC-12R817 Series




[mm]



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# Precautions

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