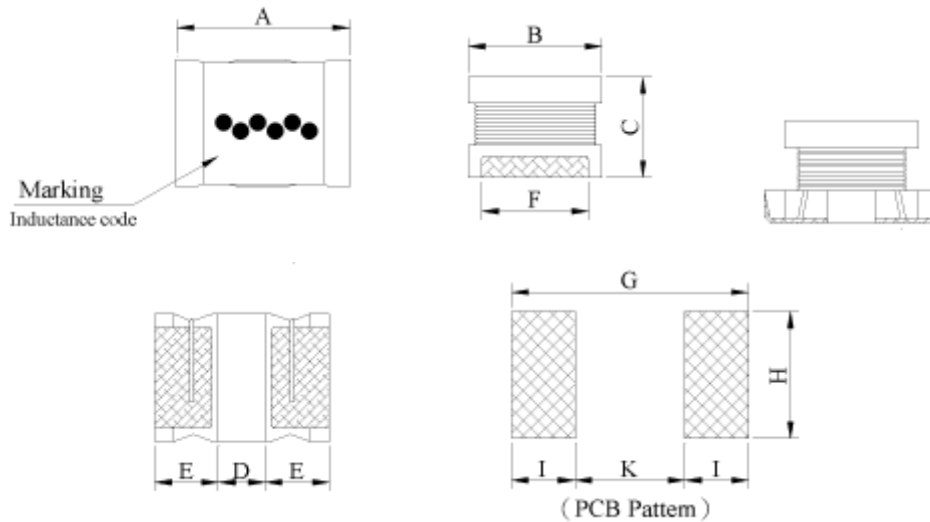


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1. Configuration & Dimensions



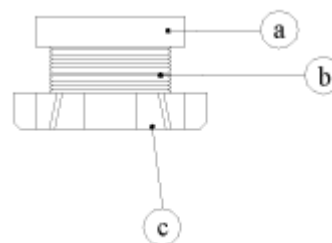
| Series | Dimensions [mm] | | | | | | | | | |
|---------|-----------------|----------|-----------|---------|-----------|---------|---------|---------|---------|---------|
| | A | B | C | D(typ.) | E | F(ref.) | G(ref.) | H(ref.) | I(ref.) | K(ref.) |
| CDH3216 | 3.20±0.3 | 1.60±0.3 | 1.85±0.30 | 1.10 | 0.90 min. | — | 3.80 | 2.00 | 1.50 | 0.80 |
| CDH32 | 3.20±0.3 | 2.50±0.3 | 2.00±0.40 | 1.30 | 1.20 ref. | 1.20 | 3.80 | 2.80 | 1.40 | 1.00 |
| CDH3225 | 3.20±0.3 | 2.50±0.3 | 2.00±0.40 | 1.30 | 1.20 ref. | 1.20 | 3.80 | 2.80 | 1.40 | 1.00 |
| CDH3226 | 3.20±0.3 | 2.50±0.3 | 1.55±0.15 | 1.30 | 1.20 ref. | 1.20 | 3.80 | 2.80 | 1.40 | 1.00 |
| CDH45 | 4.50±0.3 | 3.20±0.3 | 2.60±0.30 | 1.30 | 1.60 ref. | 2.00 | 5.40 | 3.60 | 2.00 | 1.40 |
| CDH45A | 4.50±0.3 | 3.20±0.3 | 2.60±0.40 | 1.30 | 1.60 ref. | 2.00 | 5.40 | 3.60 | 2.00 | 1.40 |
| CDH45B | 4.50±0.3 | 3.20±0.3 | 2.60±0.40 | 1.30 | 1.60 ref. | 2.00 | 5.40 | 3.60 | 2.00 | 1.40 |

2. Schematic Diagram



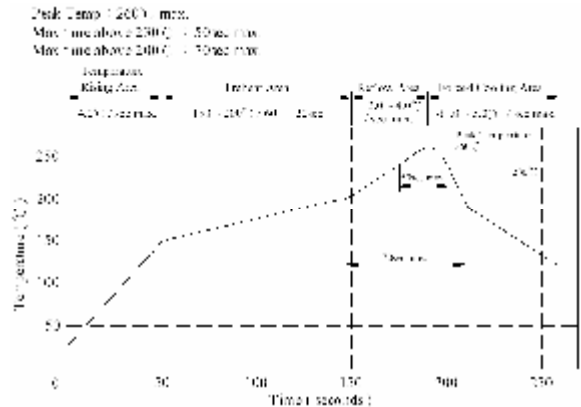
3. Materials

- a.- Core : Ferrite core
- b.- Wire : Enamelled copper wire (class F)
- c.- Terminal : Ag / Ni / Sn
- d.- Remark : Lead content 200ppm max. include ferrite



4. General Specification

- a.- Temp. rise $\left\{ \begin{array}{l} 40^{\circ}\text{C max. (CDH3216)} \\ 20^{\circ}\text{C max. (CDH32...CDH45B)} \end{array} \right.$
- b.- Rated current (I_{rms}) : Current cause inductance drop within 10% max.
- c.- Storage temp. : -40°C ~ +125°C
- d.- Operating temp. $\left\{ \begin{array}{l} -40^{\circ}\text{C} \sim +105^{\circ}\text{C (CDH3216, CDH3226)} \\ -25^{\circ}\text{C} \sim +105^{\circ}\text{C (CDH32, CDH3225, CDH45, CDH45A, CDH45B)} \end{array} \right.$
- e.- Resistance to solder heat : 260°C. 10 secs



5. Electrical Characteristics

CDH3216 (0.12μH – 100μH)

| DWG No. | Inductance (mH) | Test Freq. L (KHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) max. |
|----------------|-----------------|--------------------|----------------|--------------|---------------|
| CDH3216 – R12M | 0.12±20% | 1 | 250.0 | 0.112 | 970 |
| CDH3216 – R22M | 0.22±20% | 1 | 250.0 | 0.140 | 850 |
| CDH3216 – R33M | 0.33±20% | 1 | 300.0 | 0.160 | 800 |
| CDH3216 – R47M | 0.47±20% | 1 | 180.0 | 0.210 | 700 |
| CDH3216 – 1R0M | 1.00±20% | 1 | 100.0 | 0.392 | 510 |
| CDH3216 – 2R2M | 2.20±20% | 1 | 50.0 | 0.574 | 430 |
| CDH3216 – 4R7M | 4.70±20% | 1 | 31.0 | 0.910 | 340 |
| CDH3216 – 100K | 10.00±10% | 1 | 20.0 | 1.820 | 230 |
| CDH3216 – 220K | 22.00±10% | 1 | 14.0 | 4.200 | 160 |
| CDH3216 – 470K | 47.00±10% | 1 | 10.0 | 11.200 | 100 |
| CDH3216 – 101K | 100.00±10% | 1 | 7.0 | 16.800 | 80 |

CDH3216 , CDH32 , CDH3225 , CDH3226 , CDH45 , CDH45A & CDH45B

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CDH32 (1 μ H – 560 μ H)

| DWG No. | Inductance (mH) | Test Freq. L (MHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) max. |
|--------------|-----------------|--------------------|----------------|--------------|---------------|
| CDH32 – 1R0M | 1.0 \pm 20% | 1 | 100.0 | 0.50 | 445 |
| CDH32 – 1R2M | 1.2 \pm 20% | 1 | 100.0 | 0.60 | 425 |
| CDH32 – 1R5M | 1.5 \pm 20% | 1 | 75.0 | 0.60 | 400 |
| CDH32 – 1R8M | 1.8 \pm 20% | 1 | 60.0 | 0.70 | 390 |
| CDH32 – 2R2M | 2.2 \pm 20% | 1 | 50.0 | 0.80 | 370 |
| CDH32 – 2R7M | 2.7 \pm 20% | 1 | 43.0 | 0.90 | 320 |
| CDH32 – 3R3M | 3.3 \pm 20% | 1 | 38.0 | 1.00 | 300 |
| CDH32 – 3R9M | 3.9 \pm 20% | 1 | 35.0 | 1.10 | 290 |
| CDH32 – 4R7M | 4.7 \pm 20% | 1 | 31.0 | 1.20 | 270 |
| CDH32 – 5R6M | 5.6 \pm 20% | 1 | 28.0 | 1.30 | 250 |
| CDH32 – 6R8M | 6.8 \pm 20% | 1 | 25.0 | 1.50 | 240 |
| CDH32 – 8R2M | 8.2 \pm 20% | 1 | 23.0 | 1.60 | 225 |
| CDH32 – 100K | 10.0 \pm 10% | 1 | 20.0 | 1.80 | 190 |
| CDH32 – 120K | 12.0 \pm 10% | 1 | 18.0 | 2.00 | 180 |
| CDH32 – 150K | 15.0 \pm 10% | 1 | 16.0 | 2.20 | 170 |
| CDH32 – 180K | 18.0 \pm 10% | 1 | 15.0 | 2.50 | 165 |
| CDH32 – 220K | 22.0 \pm 10% | 1 | 14.0 | 2.80 | 150 |
| CDH32 – 270K | 27.0 \pm 10% | 1 | 13.0 | 3.10 | 125 |
| CDH32 – 330K | 33.0 \pm 10% | 1 | 12.0 | 3.50 | 115 |
| CDH32 – 390K | 39.0 \pm 10% | 1 | 11.0 | 3.90 | 110 |
| CDH32 – 470K | 47.0 \pm 10% | 1 | 11.0 | 4.30 | 100 |
| CDH32 – 560K | 56.0 \pm 10% | 1 | 10.0 | 4.90 | 85 |
| CDH32 – 680K | 68.0 \pm 10% | 1 | 9.0 | 5.50 | 80 |
| CDH32 – 820K | 82.0 \pm 10% | 1 | 8.5 | 6.20 | 70 |
| CDH32 – 101K | 100.0 \pm 10% | 1 | 8.0 | 7.00 | 80 |
| CDH32 – 121K | 120.0 \pm 10% | 1 | 7.5 | 8.00 | 75 |
| CDH32 – 151K | 150.0 \pm 10% | 1 | 7.0 | 9.30 | 70 |
| CDH32 – 181K | 180.0 \pm 10% | 1 | 6.0 | 10.20 | 65 |
| CDH32 – 221K | 220.0 \pm 10% | 1 | 5.5 | 11.80 | 65 |
| CDH32 – 271K | 270.0 \pm 10% | 1 | 5.0 | 12.50 | 65 |
| CDH32 – 331K | 330.0 \pm 10% | 1 | 5.0 | 13.00 | 65 |
| CDH32 – 391K | 390.0 \pm 10% | 1 | 5.0 | 22.00 | 50 |
| CDH32 – 471K | 470.0 \pm 10% | 0.001 | 5.0 | 25.00 | 45 |
| CDH32 – 561K | 560.0 \pm 10% | 0.001 | 5.0 | 28.00 | 40 |

CDH3216 , CDH32 , CDH3225 , CDH3226 , CDH45 , CDH45A & CDH45B



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CDH3225 (1 μ H – 560 μ H)

| DWG No. | Inductance (mH) | Test Freq. L (MHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) max. |
|----------------|-----------------|--------------------|----------------|--------------|---------------|
| CDH3225 – 1R0M | 1.0 \pm 20% | 1 | 96.0 | 0.117 | 800 |
| CDH3225 – 2R2M | 2.2 \pm 20% | 1 | 64.0 | 0.169 | 600 |
| CDH3225 – 4R7M | 4.7 \pm 20% | 1 | 43.0 | 0.260 | 450 |
| CDH3225 – 100K | 10.0 \pm 10% | 1 | 26.0 | 0.572 | 300 |
| CDH3225 – 220K | 22.0 \pm 10% | 1 | 19.0 | 0.923 | 250 |
| CDH3225 – 470K | 47.0 \pm 10% | 1 | 15.0 | 1.690 | 170 |
| CDH3225 – 101K | 100.0 \pm 10% | 1 | 10.0 | 4.550 | 100 |
| CDH3225 – 221K | 220.0 \pm 10% | 1 | 6.8 | 10.900 | 70 |
| CDH3225 – 331K | 330.0 \pm 10% | 1 | 5.6 | 13.000 | 60 |
| CDH3225 – 391K | 390.0 \pm 10% | 1 | 5.0 | 22.100 | 60 |
| CDH3225 – 471K | 470.0 \pm 10% | 1 | 5.0 | 24.700 | 60 |
| CDH3225 – 561K | 560.0 \pm 10% | 0.001 | 5.0 | 28.600 | 60 |

CDH3226 (1 μ H – 100 μ H)

| DWG No. | Inductance (mH) | Test Freq. L (MHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) |
|----------------|-----------------|--------------------|----------------|--------------|----------|
| CDH3226 – 1R0M | 1.0 \pm 20% | 1 | 100.0 | 0.078 | 1000 |
| CDH3226 – 2R2M | 2.2 \pm 20% | 1 | 63.0 | 0.126 | 790 |
| CDH3226 – 4R7M | 4.7 \pm 20% | 1 | 43.0 | 0.195 | 650 |
| CDH3226 – 100K | 10.0 \pm 10% | 1 | 26.0 | 0.390 | 450 |
| CDH3226 – 150K | 15.0 \pm 10% | 1 | 26.0 | 0.754 | 300 |
| CDH3226 – 220K | 22.0 \pm 10% | 1 | 19.0 | 0.923 | 250 |
| CDH3226 – 330K | 33.0 \pm 10% | 1 | 17.0 | 1.430 | 200 |
| CDH3226 – 470K | 47.0 \pm 10% | 1 | 15.0 | 1.690 | 170 |
| CDH3226 – 680K | 68.0 \pm 10% | 1 | 12.0 | 2.860 | 130 |
| CDH3226 – 101K | 100.0 \pm 10% | 1 | 10.0 | 4.550 | 100 |

CDH45 (1 μ H – 2200 μ H)

| DWG No. | Inductance (mH) | Q ref. | Test Freq. | | SRF (MHz) nom. | RDC (W) max. | Irms1 (mA) $\Delta T=20^{\circ}C$ max. | Irms2 (mA) $\Delta T=40^{\circ}C$ max. |
|--------------|--------------------|-----------|------------|------------|----------------------|--------------------|---|---|
| | | | L (MHz) | Q (MHz) | | | | |
| CDH45 – 1R0M | 1.0 \pm 20% | 40 | 1 | 1 | 165.0 | 0.080 | 1400 | 1800 |
| CDH45 – 1R5M | 1.5 \pm 20% | 42 | 1 | 1 | 130.0 | 0.090 | 1350 | 1750 |
| CDH45 – 1R8M | 1.8 \pm 20% | 45 | 1 | 1 | 100.0 | 0.100 | 1300 | 1700 |
| CDH45 – 2R2M | 2.2 \pm 20% | 40 | 1 | 1 | 80.0 | 0.110 | 1250 | 1600 |
| CDH45 – 2R7M | 2.7 \pm 20% | 40 | 1 | 1 | 63.0 | 0.120 | 1200 | 1500 |
| CDH45 – 3R3M | 3.3 \pm 20% | 45 | 1 | 1 | 58.0 | 0.130 | 1000 | 1400 |
| CDH45 – 3R9M | 3.9 \pm 20% | 40 | 1 | 1 | 54.0 | 0.140 | 960 | 1320 |
| CDH45 – 4R7M | 4.7 \pm 20% | 36 | 1 | 1 | 45.0 | 0.150 | 940 | 1240 |
| CDH45 – 5R6M | 5.6 \pm 20% | 36 | 1 | 1 | 41.0 | 0.180 | 920 | 1180 |
| CDH45 – 6R8M | 6.8 \pm 20% | 36 | 1 | 1 | 37.0 | 0.200 | 860 | 1100 |
| CDH45 – 8R2M | 8.2 \pm 20% | 36 | 1 | 1 | 34.0 | 0.250 | 780 | 1000 |
| CDH45 – 100M | 10.0 \pm 20% | 48 | 1 | 1 | 30.0 | 0.300 | 750 | 950 |
| CDH45 – 120M | 12.0 \pm 20% | 48 | 1 | 1 | 28.0 | 0.420 | 700 | 800 |
| CDH45 – 150M | 15.0 \pm 20% | 45 | 1 | 1 | 26.0 | 0.500 | 650 | 730 |
| CDH45 – 180M | 18.0 \pm 20% | 42 | 1 | 1 | 22.0 | 0.600 | 570 | 680 |
| CDH45 – 220K | 22.0 \pm 10% | 50 | 1 | 1 | 20.0 | 0.700 | 460 | 630 |
| CDH45 – 270K | 27.0 \pm 10% | 50 | 1 | 1 | 19.0 | 0.900 | 360 | 520 |
| CDH45 – 330K | 33.0 \pm 10% | 55 | 1 | 1 | 18.0 | 1.100 | 330 | 430 |
| CDH45 – 390K | 39.0 \pm 10% | 60 | 1 | 1 | 17.0 | 1.300 | 310 | 410 |
| CDH45 – 470K | 47.0 \pm 10% | 60 | 1 | 1 | 15.0 | 1.500 | 285 | 390 |
| CDH45 – 560K | 56.0 \pm 10% | 58 | 1 | 1 | 14.0 | 1.600 | 270 | 385 |
| CDH45 – 680K | 68.0 \pm 10% | 58 | 1 | 1 | 11.0 | 2.100 | 230 | 330 |
| CDH45 – 820K | 82.0 \pm 10% | 60 | 1 | 1 | 11.0 | 2.200 | 215 | 300 |
| CDH45 – 101K | 100.0 \pm 10% | 60 | 1 | 0.796 | 10.0 | 2.500 | 200 | 270 |
| CDH45 – 121K | 120.0 \pm 10% | 60 | 1 | 0.796 | 9.0 | 3.000 | 180 | 240 |
| CDH45 – 151K | 150.0 \pm 10% | 55 | 1 | 0.796 | 8.5 | 3.700 | 165 | 220 |
| CDH45 – 181K | 180.0 \pm 10% | 55 | 1 | 0.796 | 7.0 | 4.500 | 145 | 200 |
| CDH45 – 221K | 220.0 \pm 10% | 45 | 1 | 0.796 | 6.3 | 5.400 | 130 | 185 |
| CDH45 – 271K | 270.0 \pm 10% | 50 | 1 | 0.796 | 6.0 | 8.000 | 110 | 140 |
| CDH45 – 331K | 330.0 \pm 10% | 55 | 1 | 0.796 | 5.8 | 11.500 | 100 | 120 |
| CDH45 – 391K | 390.0 \pm 10% | 50 | 1 | 0.796 | 5.2 | 13.000 | 95 | 110 |
| CDH45 – 471K | 470.0 \pm 10% | 50 | 0.001 | 0.796 | 5.0 | 14.200 | 85 | 105 |
| CDH45 – 561K | 560.0 \pm 10% | 53 | 0.001 | 0.796 | 4.5 | 15.500 | 80 | 100 |

CDH3216 , CDH32 , CDH3225 , CDH3226 , CDH45 , CDH45A & CDH45B



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CDH45 (1 μ H - 2200 μ H)

| | | | | | | | | |
|--------------|------------------|----|-------|-------|-----|--------|----|----|
| CDH45 - 681K | 680.0 \pm 10% | 45 | 0.001 | 0.796 | 3.5 | 16.800 | 75 | 90 |
| CDH45 - 821K | 820.0 \pm 10% | 50 | 0.001 | 0.796 | 2.8 | 20.000 | 70 | 85 |
| CDH45 - 102K | 1000.0 \pm 10% | 30 | 0.001 | 0.252 | 2.5 | 30.000 | 60 | 70 |
| CDH45 - 122K | 1200.0 \pm 10% | 30 | 0.001 | 0.252 | 2.3 | 33.500 | 45 | 60 |
| CDH45 - 152K | 1500.0 \pm 10% | 35 | 0.001 | 0.252 | 2.0 | 38.500 | 40 | 55 |
| CDH45 - 182K | 1800.0 \pm 10% | 35 | 0.001 | 0.252 | 1.8 | 44.000 | 35 | 50 |
| CDH45 - 222K | 2200.0 \pm 10% | 30 | 0.001 | 0.252 | 1.6 | 63.000 | 30 | 40 |

CDH45A (1 μ H - 2200 μ H)

| DWG No. | Inductance (mH) | Test Freq. L (MHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) max. |
|---------------|-----------------|--------------------|----------------|--------------|---------------|
| CDH45A - 1R0M | 1.0 \pm 20% | 1 | 120.0 | 0.20 | 500 |
| CDH45A - 1R2M | 1.2 \pm 20% | 1 | 100.0 | 0.20 | 500 |
| CDH45A - 1R5M | 1.5 \pm 20% | 1 | 85.0 | 0.30 | 500 |
| CDH45A - 1R8M | 1.8 \pm 20% | 1 | 75.0 | 0.30 | 500 |
| CDH45A - 2R2M | 2.2 \pm 20% | 1 | 62.0 | 0.30 | 500 |
| CDH45A - 2R7M | 2.7 \pm 20% | 1 | 53.0 | 0.32 | 500 |
| CDH45A - 3R3M | 3.3 \pm 20% | 1 | 47.0 | 0.35 | 500 |
| CDH45A - 3R9M | 3.9 \pm 20% | 1 | 41.0 | 0.38 | 500 |
| CDH45A - 4R7M | 4.7 \pm 20% | 1 | 38.0 | 0.40 | 500 |
| CDH45A - 5R6M | 5.6 \pm 20% | 1 | 33.0 | 0.47 | 500 |
| CDH45A - 6R8M | 6.8 \pm 20% | 1 | 31.0 | 0.50 | 450 |
| CDH45A - 8R2M | 8.2 \pm 20% | 1 | 27.0 | 0.56 | 450 |
| CDH45A - 100M | 10.0 \pm 20% | 1 | 23.0 | 0.56 | 400 |
| CDH45A - 120M | 12.0 \pm 20% | 1 | 21.0 | 0.62 | 380 |
| CDH45A - 150M | 15.0 \pm 20% | 1 | 19.0 | 0.73 | 360 |
| CDH45A - 180M | 18.0 \pm 20% | 1 | 17.0 | 0.82 | 340 |
| CDH45A - 220K | 22.0 \pm 10% | 1 | 15.0 | 0.94 | 320 |
| CDH45A - 270K | 27.0 \pm 10% | 1 | 14.0 | 1.10 | 300 |
| CDH45A - 330K | 33.0 \pm 10% | 1 | 12.0 | 1.20 | 270 |
| CDH45A - 390K | 39.0 \pm 10% | 1 | 11.0 | 1.40 | 240 |
| CDH45A - 470K | 47.0 \pm 10% | 1 | 10.0 | 1.50 | 220 |
| CDH45A - 560K | 56.0 \pm 10% | 1 | 9.3 | 1.70 | 200 |
| CDH45A - 680K | 68.0 \pm 10% | 1 | 8.4 | 1.90 | 180 |
| CDH45A - 820K | 82.0 \pm 10% | 1 | 7.5 | 2.20 | 170 |
| CDH45A - 101K | 100.0 \pm 10% | 1 | 6.8 | 2.50 | 160 |

CDH3216 , CDH32 , CDH3225 , CDH3226 , CDH45 , CDH45A & CDH45B



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CDH45A (1 μ H – 2200 μ H)

| | | | | | |
|---------------|------------------|-------|-----|-------|-----|
| CDH45A – 121K | 120.0 \pm 10% | 1 | 6.2 | 3.00 | 150 |
| CDH45A – 151K | 150.0 \pm 10% | 1 | 5.5 | 3.70 | 130 |
| CDH45A – 181K | 180.0 \pm 10% | 1 | 5.0 | 4.50 | 120 |
| CDH45A – 221K | 220.0 \pm 10% | 1 | 4.5 | 5.40 | 110 |
| CDH45A – 271K | 270.0 \pm 10% | 1 | 4.0 | 6.80 | 100 |
| CDH45A – 331K | 330.0 \pm 10% | 1 | 3.6 | 8.20 | 95 |
| CDH45A – 391K | 390.0 \pm 10% | 1 | 3.3 | 9.70 | 90 |
| CDH45A – 471K | 470.0 \pm 10% | 0.001 | 3.0 | 11.80 | 80 |
| CDH45A – 561K | 560.0 \pm 10% | 0.001 | 2.7 | 14.50 | 70 |
| CDH45A – 681K | 680.0 \pm 10% | 0.001 | 2.5 | 17.00 | 65 |
| CDH45A – 821K | 820.0 \pm 10% | 0.001 | 2.2 | 20.50 | 60 |
| CDH45A – 102K | 1000.0 \pm 10% | 0.001 | 2.0 | 25.00 | 50 |
| CDH45A – 122K | 1200.0 \pm 10% | 0.001 | 1.8 | 30.00 | 45 |
| CDH45A – 152K | 1500.0 \pm 10% | 0.001 | 1.6 | 37.00 | 40 |
| CDH45A – 182K | 1800.0 \pm 10% | 0.001 | 1.5 | 45.00 | 35 |
| CDH45A – 222K | 2200.0 \pm 10% | 0.001 | 1.3 | 50.00 | 30 |

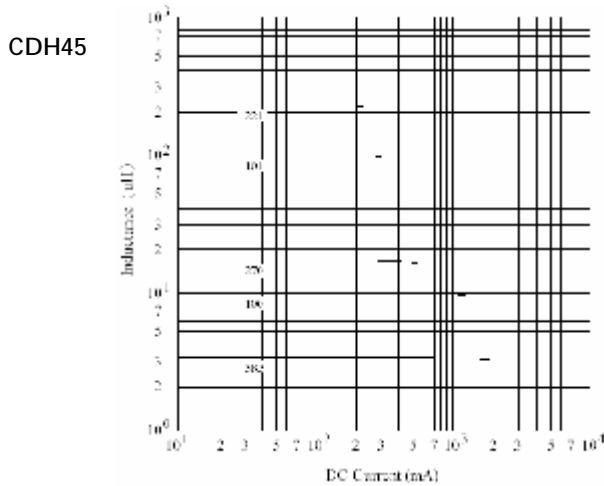
CDH45B (1 μ H – 470 μ H)

| DWG No. | Inductance (mH) | Test Freq. L (MHz) | SRF (MHz) min. | RDC (W) max. | IDC (mA) max. |
|---------------|-----------------|--------------------|----------------|--------------|---------------|
| CDH45B – 1R0M | 1.0 \pm 20% | 1 | 100.0 | 0.08 | 1080 |
| CDH45B – 1R5M | 1.5 \pm 20% | 1 | 85.0 | 0.09 | 1000 |
| CDH45B – 2R2M | 2.2 \pm 20% | 1 | 60.0 | 0.11 | 900 |
| CDH45B – 3R3M | 3.3 \pm 20% | 1 | 47.0 | 0.13 | 800 |
| CDH45B – 4R7M | 4.7 \pm 20% | 1 | 35.0 | 0.15 | 750 |
| CDH45B – 6R8M | 6.8 \pm 20% | 1 | 30.0 | 0.20 | 720 |
| CDH45B – 100K | 10.0 \pm 10% | 1 | 23.0 | 0.24 | 650 |
| CDH45B – 150K | 15.0 \pm 10% | 1 | 20.0 | 0.32 | 570 |
| CDH45B – 220K | 22.0 \pm 10% | 1 | 15.0 | 0.60 | 420 |
| CDH45B – 330K | 33.0 \pm 10% | 1 | 12.0 | 1.00 | 310 |
| CDH45B – 470K | 47.0 \pm 10% | 1 | 10.0 | 1.10 | 280 |
| CDH45B – 680K | 68.0 \pm 10% | 1 | 8.4 | 1.70 | 220 |
| CDH45B – 101K | 100.0 \pm 10% | 1 | 6.8 | 2.20 | 190 |
| CDH45B – 151K | 150.0 \pm 10% | 1 | 5.5 | 3.50 | 130 |
| CDH45B – 221K | 220.0 \pm 10% | 1 | 4.5 | 4.00 | 110 |
| CDH45B – 331K | 330.0 \pm 10% | 1 | 3.6 | 6.80 | 100 |
| CDH45B – 471K | 470.0 \pm 10% | 1 | 3.0 | 8.50 | 90 |

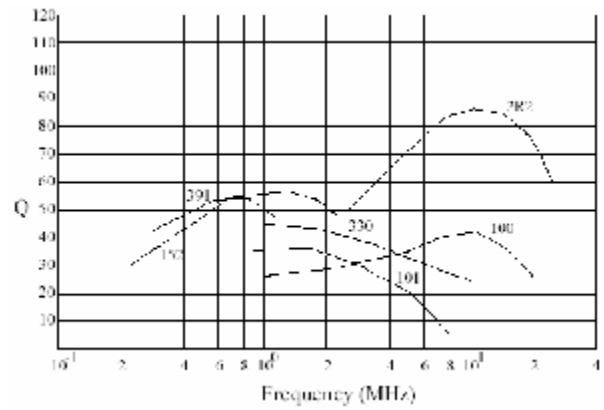
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6. Curve

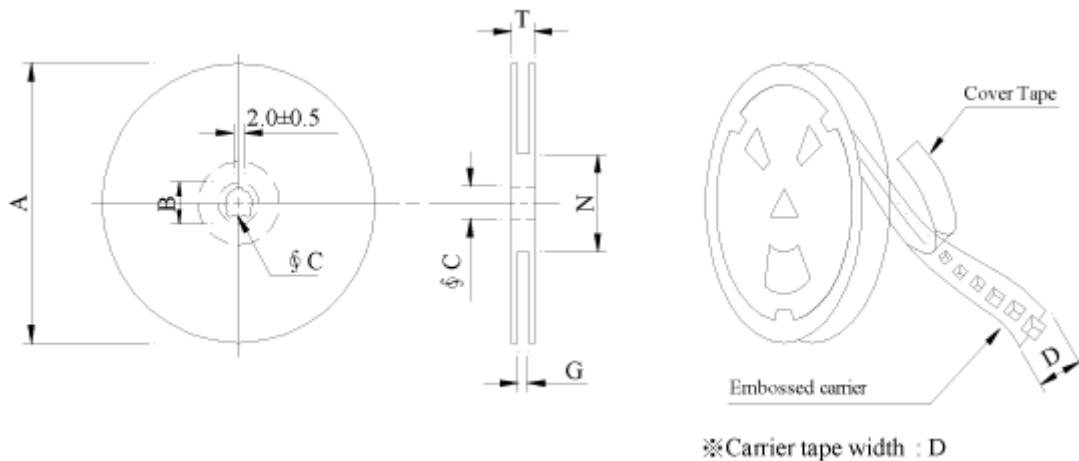
Inductance VS. DC Current Curve



Q VS. Frequency Response



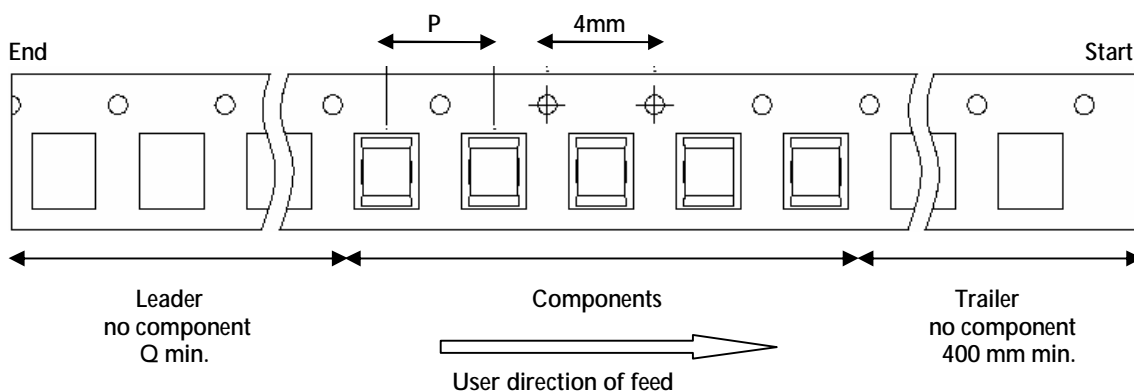
7. Packaging Information



CDH3216 , CDH32 , CDH3225 , CDH3226 , CDH45 , CDH45A & CDH45B

SMD Power Inductors Unshielded

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(CDH3216, CDH32, CDH3225, CDH3226 à P = 4mm) (CDH45, CDH45A, CDH45B à P = 8mm)
(CDH3216, CDH3226 à Q = 160mm) (CDH32, CDH3225, CDH45, CDH45A, CDH45B à Q = 200mm)

CDH3216, CDH32, CDH3225 & CDH3226

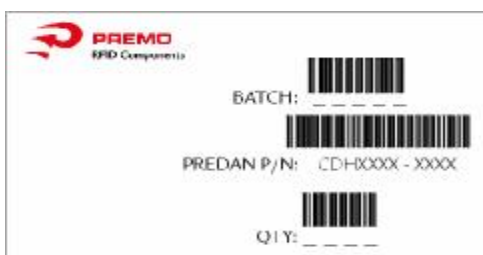
| Style | Dimensions [mm] | | | | | | |
|---------|-----------------|--------|----|---|------------------|-----------------|------|
| | A | B | C | D | G | N | T |
| 07 - 08 | 178 | 21±0.8 | 13 | 8 | 10 ⁺⁰ | 50 ⁰ | 12.5 |

CDH45, CDH45A & CDH45B

| Style | Dimensions [mm] | | | | | | |
|---------|-----------------|--------|--------|----|------------------|-----------------|------|
| | A | B | C | D | G | N | T |
| 07 - 12 | 178 | 21±0.8 | 13 | 12 | 14 ⁺⁰ | 50 ⁰ | 16.5 |
| 13 - 12 | 330 | 21±0.8 | 13±0.5 | 12 | 14 ⁺⁰ | 50 ⁰ | 18.4 |

| Series | Inner : Reel | | | Outer : Carton | | |
|---------|--------------|----------|---------|----------------|----------|--------------|
| | Q'TY(pcs) | G.W.(gw) | Style | Q'TY(pcs) | G.W.(Kg) | Size(cm) |
| CDH3216 | 2,000 | 80 | 07 - 08 | 100,000 | 7.50 | 42 x 41 x 24 |
| CDH32 | 2,000 | 220 | 07 - 08 | 100,000 | 15.0 | 42 x 41 x 24 |
| CDH3225 | 2,000 | 220 | 07 - 08 | 100,000 | 15.0 | 42 x 41 x 24 |
| CDH3226 | 2,000 | 220 | 07 - 08 | 100,000 | 15.0 | 42 x 41 x 24 |
| CDH45 | 500 | 130 | 07 - 12 | 20,000 | 7.20 | 42 x 41 x 24 |
| CDH45 | 2,000 | 540 | 13 - 12 | 16,000 | 6.50 | 40 x 40 x 24 |
| CDH45A | 500 | 130 | 07 - 12 | 20,000 | 7.20 | 42 x 41 x 24 |
| CDH45A | 2,000 | 540 | 13 - 12 | 16,000 | 6.50 | 40 x 40 x 24 |
| CDH45B | 500 | 130 | 07 - 12 | 20,000 | 7.20 | 42 x 41 x 24 |
| CDH45B | 2,000 | 540 | 13 - 12 | 16,000 | 6.50 | 40 x 40 x 24 |

8. Labelling



9. Reliability Test

| Test item | Specification | Test condition | | | | | | | | | | | | | | | |
|----------------------------------|---|--|------------|---|---------|------------|--|------------|--|--|--|------------|---|--------|------------|--|------------|
| Solderability | More than 90% of the terminal electrode shall be covered with fresh solder | Preheat : 150±25% for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds | | | | | | | | | | | | | | | |
| Thermal shock test (Temp. cycle) | Inductance shall not change more than ±10% | <table border="0"> <tr> <td>Room temp.</td> <td>→</td> <td>-25±2°C</td> </tr> <tr> <td>15 minutes</td> <td></td> <td>30 minutes</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Room temp.</td> <td>→</td> <td>85±2°C</td> </tr> <tr> <td>15 minutes</td> <td></td> <td>30 minutes</td> </tr> </table> | Room temp. | → | -25±2°C | 15 minutes | | 30 minutes | | | | Room temp. | → | 85±2°C | 15 minutes | | 30 minutes |
| Room temp. | | → | -25±2°C | | | | | | | | | | | | | | |
| 15 minutes | | | 30 minutes | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Room temp. | → | 85±2°C | | | | | | | | | | | | | | | |
| 15 minutes | | 30 minutes | | | | | | | | | | | | | | | |
| Humidity Resistance test | Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per specifications Time : 500 hours | | | | | | | | | | | | | | | | |
| High temp. Resistance test | Temperature : 105±2°C Applied current : Per specifications Time : 500 hours | | | | | | | | | | | | | | | | |

10. Edition Control

| Edition | Date | Change description | Made by |
|-----------------|----------|----------------------|------------|
| 1 st | 31/08/06 | Update Specification | Pablo Pozo |

CDH3216 , CDH32 , CDH3225 ,
CDH3226 , CDH45 , CDH45A &
CDH45B



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