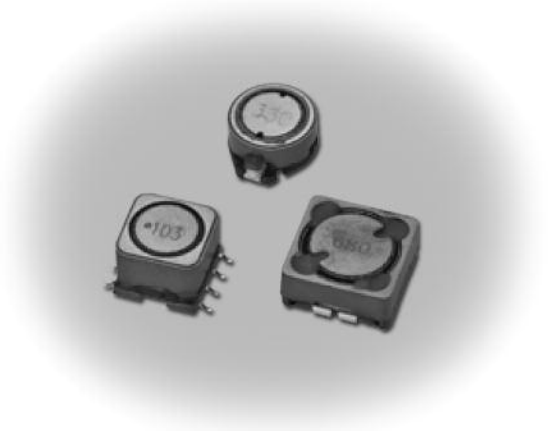
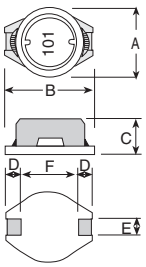


## features

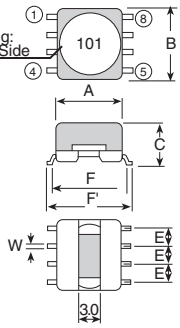
- Marking: Black body color
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

## dimensions and construction

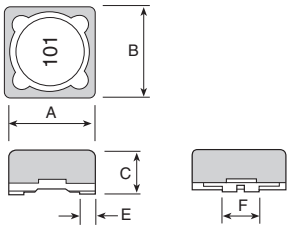
**0804, 0805, 1003, 1005**




**0906, 0908**




**1205, 1206, 1208**




| Size | Dimensions inches (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | F1 | W |
| SDS0804 | .315±.008 (8.0±0.2) | .413±.008 (10.5±0.2) | .146±.012 (3.7±0.3) | .083±.008 (2.1±0.2) | .079±.008 (2.0±0.2) | .236±.012 (6.0±0.3) | — | — |
| SDS0805 | .315±.008 (8.0±0.2) | .413±.008 (10.5±0.2) | .177±.012 (4.5±0.3) | .083±.008 (2.1±0.2) | .079±.008 (2.0±0.2) | .236±.012 (6.0±0.3) | — | — |
| SDS1003 | .400±.012 (10.1±0.3) | .500±.012 (12.7±0.3) | .106±.012 (2.7±0.3) | .094±.008 (2.4±0.2) | .098±.008 (2.5±0.2) | .299±.012 (7.6±0.3) | — | — |
| SDS1005 | .394±.008 (10.0±0.2) | .500±.012 (12.7±0.3) | .193±.012 (4.9±0.3) | .094±.008 (2.4±0.2) | .090 typ. (2.2 typ.) | .299±.012 (7.6±0.3) | — | — |
| SDS0906 | .374±.012 (9.5±0.3) | .413 (10.5) | .236±.012 (6.0±0.3) | — | .098±.012 (2.5±0.3) | .433±.020 (11.0±0.5) | .500±.031 (12.7±0.8) | .024 typ. (0.6 typ.) |
| SDS0908 | .374±.012 (9.5±0.3) | .413 (10.5) | .295±.012 (7.5±0.3) | — | .098±.012 (2.5±0.3) | .433±.020 (11.0±0.5) | .500±.031 (12.7±0.8) | .024 typ. (0.6 typ.) |
| SDS1205 | .500±.012 (12.7±0.3) | .500±.012 (12.7±0.3) | .197±.020 (5.0±0.5) | — | .091±.008 (2.3±0.2) | .197±.008 (5.0±0.2) | — | — |
| SDS1206 | .500±.012 (12.7±0.3) | .500±.012 (12.7±0.3) | .236±.020 (6.0±0.5) | — | .091±.008 (2.3±0.2) | .197±.008 (5.0±0.2) | — | — |
| SDS1208 | .500±.012 (12.7±0.3) | .500±.012 (12.7±0.3) | .315±.020 (8.0±0.5) | — | .091±.008 (2.3±0.2) | .197±.008 (5.0±0.2) | — | — |

## ordering information

New Part #

| SDS | 1205 | T | TEB | 2R5 | M |
|---|---|---|---|---|---|
| Type | Size | Terminal Surface Material | Packaging | Nominal Inductance | Tolerance |
| | 0804<br>0805<br>0906<br>0908<br>1003<br>1005<br>1205<br>1206<br>1208 | T: Sn | TEB: 13" embossed plastic | 3 digits<br>(unit: µH) | K: ±10%<br>M: ±20%<br>Y: ±15% |

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

12/17/11

## applications and ratings

| Part Designation | Nominal Inductance L (µH) @ 1KHz | Inductance Tolerance | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Operating Temperature Range |
|---|---|---|---|---|---|
| SDS0804TTEB5R0M | 5.0 | M: ±20% | 0.080 | 1.70 | -25°C to +105°C |
| SDS0804TTEB7R5M | 7.5 | | 0.100 | 1.40 | |
| SDS0804TTEB100 | 10 | | 0.120 | 1.20 | |
| SDS0804TTEB120 | 12 | | 0.150 | 1.10 | |
| SDS0804TTEB150 | 15 | | 0.170 | 1.00 | |
| SDS0804TTEB180 | 18 | Y: ±15% | 0.190 | 0.90 | |
| SDS0804TTEB220 | 22 | | 0.250 | 0.80 | |
| SDS0804TTEB270 | 27 | | 0.270 | 0.70 | |
| SDS0804TTEB330 | 33 | | 0.300 | 0.65 | |
| SDS0804TTEB390 | 39 | | 0.380 | 0.60 | |
| SDS0804TTEB470 | 47 | K: ±10% | 0.460 | 0.55 | |
| SDS0804TTEB560 | 56 | | 0.600 | 0.50 | |
| SDS0804TTEB680 | 68 | | 0.700 | 0.45 | |
| SDS0804TTEB820 | 82 | | 0.800 | 0.40 | |
| SDS0805TTEB2R2M | 2.2 | M: ±20% | 0.04 | 2.50 | -25°C to +105°C |
| SDS0805TTEB3R9M | 3.9 | | 0.055 | 2.10 | |
| SDS0805TTEB5R6M | 5.6 | | 0.065 | 1.95 | |
| SDS0805TTEB8R2M | 8.2 | | 0.08 | 1.75 | |
| SDS0805TTEB100 | 10 | | 0.10 | 1.50 | |
| SDS0805TTEB120 | 12 | | 0.12 | 1.40 | |
| SDS0805TTEB150 | 15 | | 0.14 | 1.30 | |
| SDS0805TTEB180 | 18 | Y: ±15% | 0.16 | 1.20 | |
| SDS0805TTEB220 | 22 | | 0.18 | 1.10 | |
| SDS0805TTEB270 | 27 | | 0.20 | 1.00 | |
| SDS0805TTEB330 | 33 | | 0.24 | 0.92 | |
| SDS0805TTEB390 | 39 | | 0.26 | 0.84 | |
| SDS0805TTEB470 | 47 | | 0.28 | 0.75 | |
| SDS0805TTEB560 | 56 | K: ±10% | 0.38 | 0.68 | |
| SDS0805TTEB680 | 68 | | 0.44 | 0.60 | |
| SDS0805TTEB820 | 82 | | 0.55 | 0.54 | |
| SDS0805TTEB101 | 100 | | 0.60 | 0.50 | |
| SDS0805TTEB121 | 120 | | 0.75 | 0.45 | |
| SDS0906TTEB100 | 10 | M: ±20% | 0.080 | 1.80 | -25°C to +105°C |
| SDS0906TTEB150 | 15 | | 0.100 | 1.60 | |
| SDS0906TTEB220 | 22 | | 0.130 | 1.40 | |
| SDS0906TTEB330 | 33 | | 0.150 | 1.20 | |
| SDS0906TTEB470 | 47 | | 0.180 | 1.00 | |
| SDS0906TTEB680 | 68 | | 0.350 | 0.85 | |
| SDS0906TTEB101 | 100 | Y: ±15% | 0.420 | 0.70 | |
| SDS0906TTEB151 | 150 | | 0.550 | 0.60 | |
| SDS0906TTEB221 | 220 | | 1.00 | 0.48 | |
| SDS0906TTEB331 | 330 | | 1.30 | 0.40 | |
| SDS0906TTEB471 | 470 | | 1.60 | 0.35 | |
| SDS0906TTEB681 | 680 | | 3.20 | 0.25 | |
| SDS0906TTEB102 | 1000 | | 4.00 | 0.22 | |
| SDS0906TTEB152 | 1500 | | 5.20 | 0.18 | |
| SDS0906TTEB222 | 2200 | | 8.50 | 0.16 | |
| SDS0906TTEB332 | 3300 | | 11.0 | 0.12 | |
| SDS0906TTEB472 | 4700 | | 19.0 | 0.10 | |
| SDS0906TTEB682 | 6800 | | 24.0 | 0.09 | |
| SDS0906TTEB103 | 10000 | | 38.0 | 0.07 | |



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12/17/11

## applications and ratings (continued)

| Part Designation | Nominal Inductance L (µH) @ 1KHz | Inductance Tolerance | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Operating Temperature Range |
|---|---|---|---|---|---|
| SDS0908TTEB100 | 10 | M: ±20% | 0.04 | 3.00 | -25°C to +105°C |
| SDS0908TTEB120 | 12 | | 0.05 | 2.50 | |
| SDS0908TTEB150 | 15 | | 0.065 | 2.20 | |
| SDS0908TTEB180 | 18 | | 0.075 | 2.00 | |
| SDS0908TTEB220 | 22 | | 0.08 | 1.90 | |
| SDS0908TTEB270 | 27 | | 0.09 | 1.80 | |
| SDS0908TTEB330 | 33 | | 0.10 | 1.70 | |
| SDS0908TTEB390 | 39 | | 0.135 | 1.50 | |
| SDS0908TTEB470 | 47 | | 0.15 | 1.40 | |
| SDS0908TTEB560 | 56 | | 0.165 | 1.35 | |
| SDS0908TTEB680 | 68 | | 0.184 | 1.25 | |
| SDS0908TTEB820 | 82 | | 0.26 | 1.05 | |
| SDS0908TTEB101 | 100 | Y: ±15% | 0.28 | 1.00 | |
| SDS0908TTEB121 | 120 | | 0.34 | 0.90 | |
| SDS0908TTEB151 | 150 | | 0.45 | 0.80 | |
| SDS0908TTEB181 | 180 | | 0.50 | 0.70 | |
| SDS0908TTEB221 | 220 | | 0.60 | 0.65 | |
| SDS0908TTEB271 | 270 | | 0.70 | 0.60 | |
| SDS0908TTEB331 | 330 | | 0.80 | 0.55 | |
| SDS0908TTEB391 | 390 | | 1.00 | 0.50 | |
| SDS0908TTEB471 | 470 | | 1.15 | 0.45 | |
| SDS0908TTEB561 | 560 | | 1.50 | 0.38 | |
| SDS0908TTEB681 | 680 | | 1.70 | 0.35 | |
| SDS0908TTEB821 | 820 | | 2.20 | 0.32 | |
| SDS0908TTEB102 | 1000 | | 2.50 | 0.30 | |
| SDS0908TTEB152 | 1500 | | 4.00 | 0.25 | |
| SDS0908TTEB222 | 2200 | | 5.00 | 0.20 | |
| SDS0908TTEB332 | 3300 | | 8.00 | 0.15 | |
| SDS0908TTEB472 | 4700 | | 12.0 | 0.12 | |
| SDS0908TTEB682 | 6800 | | 16.5 | 0.10 | |
| SDS0908TTEB103 | 10000 | | 26.0 | 0.095 | |
| SDS0908TTEB153 | 15000 | | 40.0 | 0.075 | |
| SDS1003TTEB2R2M | 2.2 | M: ±20% | 0.045 | 2.76 | -25°C to +105°C |
| SDS1003TTEB4R7M | 4.7 | | 0.078 | 1.90 | |
| SDS1003TTEB7R5M | 7.5 | | 0.10 | 1.44 | |
| SDS1003TTEB100 | 10 | | 0.145 | 1.24 | |
| SDS1003TTEB150 | 15 | | 0.20 | 1.02 | |
| SDS1003TTEB220 | 22 | | 0.30 | 0.80 | |
| SDS1003TTEB330 | 33 | | 0.45 | 0.70 | |
| SDS1003TTEB470 | 47 | | 0.65 | 0.60 | |
| SDS1003TTEB680 | 68 | | 0.80 | 0.48 | |
| SDS1003TTEB101 | 100 | | 1.40 | 0.40 | |
| SDS1003TTEB151 | 150 | | 1.80 | 0.32 | |
| SDS1003TTEB221 | 220 | | 2.20 | 0.26 | |
| SDS1005TTEB2R2M | 2.2 | M: ±20% | 0.027 | 3.10 | -25°C to +105°C |
| SDS1005TTEB3R0M | 3.0 | | 0.03 | 2.90 | |
| SDS1005TTEB4R7M | 4.7 | | 0.04 | 2.50 | |
| SDS1005TTEB7R0M | 7.0 | | 0.055 | 2.20 | |
| SDS1005TTEB100 | 10 | | 0.065 | 2.00 | |
| SDS1005TTEB120 | 12 | | 0.08 | 1.80 | |

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

## applications and ratings (continued)

| Part Designation | Nominal Inductance L (µH) @ 1KHz | Inductance Tolerance | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Operating Temperature Range |
|---|---|---|---|---|---|
| SDS1005TTEB150 | 15 | M: ±20% | 0.085 | 1.70 | -25°C to +105°C |
| SDS1005TTEB180 | 18 | Y: ±15% | 0.09 | 1.60 | |
| SDS1005TTEB220 | 22 | | 0.10 | 1.40 | |
| SDS1005TTEB270 | 27 | | 0.12 | 1.30 | |
| SDS1005TTEB330 | 33 | | 0.16 | 1.20 | |
| SDS1005TTEB390 | 39 | | 0.18 | 1.05 | |
| SDS1005TTEB470 | 47 | | 0.19 | 1.00 | |
| SDS1005TTEB560 | 56 | | 0.21 | 0.90 | |
| SDS1005TTEB680 | 68 | | 0.34 | 0.82 | |
| SDS1005TTEB820 | 82 | | 0.38 | 0.75 | |
| SDS1005TTEB101 | 100 | K: ±10% | 0.42 | 0.68 | |
| SDS1005TTEB121 | 120 | | 0.46 | 0.60 | |
| SDS1005TTEB151 | 150 | | 0.52 | 0.55 | |
| SDS1005TTEB181 | 180 | | 0.70 | 0.50 | |
| SDS1005TTEB221 | 220 | | 0.80 | 0.45 | |
| SDS1005TTEB271 | 270 | | 1.10 | 0.40 | |
| SDS1005TTEB331 | 330 | | 1.20 | 0.35 | |
| SDS1005TTEB391 | 390 | | 1.40 | 0.33 | |
| SDS1205TTEB2R5M | 2.5 | M: ±20% | 24 | 5.0 | -25°C to +105°C |
| SDS1205TTEB5R0M | 5.0 | | 35 | 4.0 | |
| SDS1205TTEB100 | 10 | | 54 | 3.0 | |
| SDS1205TTEB250 | 25 | | 120 | 2.0 | |
| SDS1205TTEB500 | 50 | Y: ±15% | 200 | 1.5 | |
| SDS1205TTEB750 | 75 | | 330 | 1.2 | |
| SDS1205TTEB101 | 100 | K: ±10% | 400 | 1.0 | |
| SDS1206TTEB2R5M | 2.5 | M: ±20% | 16 | 6.20 | -25°C to +105°C |
| SDS1206TTEB5R0M | 5.0 | | 22 | 4.70 | |
| SDS1206TTEB7R5M | 7.5 | | 25 | 3.80 | |
| SDS1206TTEB100 | 10 | | 35 | 3.30 | |
| SDS1206TTEB120 | 12 | | 38 | 3.00 | |
| SDS1206TTEB150 | 15 | | 42 | 2.80 | |
| SDS1206TTEB180 | 18 | | 50 | 2.50 | |
| SDS1206TTEB220 | 22 | | 62 | 2.30 | |
| SDS1206TTEB270 | 27 | Y: ±15% | 68 | 2.00 | |
| SDS1206TTEB330 | 33 | | 90 | 1.90 | |
| SDS1206TTEB390 | 39 | | 100 | 1.75 | |
| SDS1206TTEB470 | 47 | | 130 | 1.60 | |
| SDS1206TTEB560 | 56 | | 155 | 1.45 | |
| SDS1206TTEB680 | 68 | | 170 | 1.30 | |
| SDS1206TTEB820 | 82 | | 185 | 1.20 | |
| SDS1206TTEB101 | 100 | | 220 | 1.10 | |
| SDS1206TTEB121 | 120 | | 260 | 1.00 | |
| SDS1206TTEB151 | 150 | K: ±10% | 320 | 0.90 | |
| SDS1206TTEB181 | 180 | | 380 | 0.80 | |
| SDS1206TTEB221 | 220 | | 460 | 0.70 | |
| SDS1206TTEB271 | 270 | | 520 | 0.65 | |
| SDS1206TTEB331 | 330 | | 660 | 0.60 | |
| SDS1206TTEB391 | 390 | | 870 | 0.55 | |
| SDS1206TTEB471 | 470 | | 970 | 0.50 | |
| SDS1206TTEB561 | 560 | | 1320 | 0.45 | |



Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

## applications and ratings (continued)

| Part Designation | Nominal Inductance L (µH) @ 1KHz | Inductance Tolerance | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Operating Temperature Range |
|---|---|---|---|---|---|
| SDS1206TTEB681 | 680 | K: ±10% | 1500 | 0.40 | -25°C to +105°C |
| SDS1206TTEB821 | 820 | | 1700 | 0.35 | |
| SDS1208TTEB2R5M | 2.5 | M: ±20% | 11.4 | 7.50 | -25°C to +105°C |
| SDS1208TTEB4R5M | 4.5 | | 14 | 6.50 | |
| SDS1208TTEB6R5M | 6.5 | | 18 | 6.00 | |
| SDS1208TTEB100 | 10 | | 21 | 5.00 | |
| SDS1208TTEB120 | 12 | | 25 | 4.80 | |
| SDS1208TTEB150 | 15 | | 36 | 4.00 | |
| SDS1208TTEB180 | 18 | | 40 | 3.80 | |
| SDS1208TTEB220 | 22 | | 43 | 3.50 | |
| SDS1208TTEB270 | 27 | | 48 | 3.00 | |
| SDS1208TTEB330 | 33 | Y: ±15% | 62 | 2.80 | |
| SDS1208TTEB390 | 39 | | 76 | 2.50 | |
| SDS1208TTEB470 | 47 | | 85 | 2.20 | |
| SDS1208TTEB560 | 56 | | 110 | 2.00 | |
| SDS1208TTEB680 | 68 | | 135 | 1.80 | |
| SDS1208TTEB820 | 82 | | 150 | 1.60 | |
| SDS1208TTEB101 | 100 | | 170 | 1.50 | |
| SDS1208TTEB221 | 220 | K: ±10% | 380 | 1.10 | |
| SDS1208TTEB331 | 330 | | 650 | 0.85 | |
| SDS1208TTEB471 | 470 | | 850 | 0.70 | |
| SDS1208TTEB102 | 1000 | | 1650 | 0.50 | |



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