

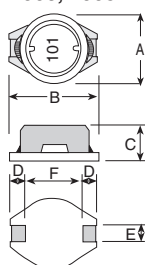
## features

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

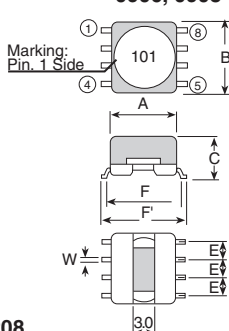


## dimensions and construction

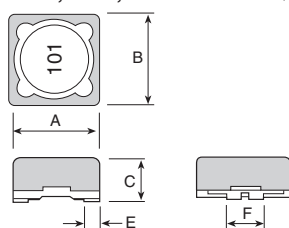
0804, 0805,  
1003, 1005



0906, 0908



1205, 1206, 1208



| Size    | Dimensions inches (mm)  |                         |                        |                        |                        |                         |                         | F1                     | W |
|---------|-------------------------|-------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------------------|---|
|         | A                       | B                       | C                      | D                      | E                      | F                       |                         |                        |   |
| SDS0804 | .315±.008<br>(8.0±0.2)  | .413±.008<br>(10.5±0.2) | .146±.012<br>(3.7±0.3) | .083±.008<br>(2.1±0.2) | .079±.008<br>(2.0±0.2) | .236±.012<br>(6.0±0.3)  | —                       | —                      | — |
| SDS0805 | .315±.008<br>(8.0±0.2)  | .413±.008<br>(10.5±0.2) | .177±.012<br>(4.5±0.3) | .083±.008<br>(2.1±0.2) | .079±.008<br>(2.0±0.2) | .236±.012<br>(6.0±0.3)  | —                       | —                      | — |
| SDS1003 | .406±.008<br>(10.3±0.2) | .500±.008<br>(12.7±0.2) | .106±.012<br>(2.7±0.3) | .094±.008<br>(2.4±0.2) | .098±.008<br>(2.5±0.2) | .299±.012<br>(7.6±0.3)  | —                       | —                      | — |
| SDS1005 | .394±.008<br>(10.0±0.2) | .500±.008<br>(12.7±0.2) | .193±.012<br>(4.9±0.3) | .094±.008<br>(2.4±0.2) | .098±.008<br>(2.5±0.2) | .299±.012<br>(7.6±0.3)  | —                       | —                      | — |
| SDS0906 | .374±.012<br>(9.5±0.3)  | .413<br>(10.5)          | .236±.012<br>(6.0±0.3) | —                      | .098±.012<br>(2.5±0.3) | .433±.020<br>(11.0±0.5) | .500±.031<br>(12.7±0.8) | .028±.004<br>(0.7±0.1) | — |
| SDS0908 | .374±.012<br>(9.5±0.3)  | .413<br>(10.5)          | .295±.012<br>(7.5±0.3) | —                      | .098±.012<br>(2.5±0.3) | .433±.020<br>(11.0±0.5) | .500±.031<br>(12.7±0.8) | .028±.004<br>(0.7±0.1) | — |
| SDS1205 | .500±.012<br>(12.7±0.3) | .500±.012<br>(12.7±0.3) | .197±.020<br>(5.0±0.5) | —                      | .091±.008<br>(2.3±0.2) | .197±.008<br>(5.0±0.2)  | —                       | —                      | — |
| SDS1206 | .500±.012<br>(12.7±0.3) | .500±.012<br>(12.7±0.3) | .236±.020<br>(6.0±0.5) | —                      | .091±.008<br>(2.3±0.2) | .197±.008<br>(5.0±0.2)  | —                       | —                      | — |
| SDS1208 | .500±.012<br>(12.7±0.3) | .500±.012<br>(12.7±0.3) | .315±.020<br>(8.0±0.5) | —                      | .091±.008<br>(2.3±0.2) | .197±.008<br>(5.0±0.2)  | —                       | —                      | — |

## ordering information

New Part #

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

## 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                                | -20°C to +80°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                                | -20°C to +80°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                               | Y: ±15%              | 0.12                      | 1.40                                |                             |
| SDS0805TTEB150   | 15                               |                      | 0.14                      | 1.30                                |                             |
| SDS0805TTEB180   | 18                               |                      | 0.16                      | 1.20                                |                             |
| SDS0805TTEB220   | 22                               |                      | 0.18                      | 1.10                                |                             |
| SDS0805TTEB270   | 27                               |                      | 0.20                      | 1.00                                |                             |
| SDS0805TTEB330   | 33                               | K: ±10%              | 0.24                      | 0.92                                |                             |
| SDS0805TTEB390   | 39                               |                      | 0.26                      | 0.84                                |                             |
| SDS0805TTEB470   | 47                               |                      | 0.28                      | 0.75                                |                             |
| SDS0805TTEB560   | 56                               |                      | 0.38                      | 0.68                                |                             |
| SDS0805TTEB680   | 68                               |                      | 0.44                      | 0.60                                |                             |
| SDS0805TTEB820   | 82                               | Y: ±15%              | 0.55                      | 0.54                                |                             |
| SDS0805TTEB101   | 100                              |                      | 0.60                      | 0.50                                |                             |
| SDS0805TTEB121   | 120                              |                      | 0.75                      | 0.45                                |                             |
| SDS0906TTEB100   | 10                               | M: ±20%              | 0.080                     | 1.80                                | -20°C to +80°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                               | Y: ±15%              | 0.350                     | 0.85                                |                             |
| SDS0906TTEB101   | 100                              |                      | 0.420                     | 0.70                                |                             |
| SDS0906TTEB151   | 150                              |                      | 0.550                     | 0.60                                |                             |
| SDS0906TTEB221   | 220                              |                      | 1.00                      | 0.48                                |                             |
| SDS0906TTEB331   | 330                              |                      | 1.30                      | 0.40                                |                             |
| SDS0906TTEB471   | 470                              | Y: ±15%              | 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                             | Y: ±15%              | 11.0                      | 0.12                                |                             |
| SDS0906TTEB472   | 4700                             |                      | 19.0                      | 0.10                                |                             |
| SDS0906TTEB682   | 6800                             |                      | 24.0                      | 0.09                                |                             |
| SDS0906TTEB103   | 10000                            |                      | 38.0                      | 0.07                                |                             |

## applications and ratings (continued)

| Part Designation | Nominal Inductance<br>L (μH) @ 1KHz | Inductance Tolerance | DC Resistance<br>Maximum (Ω) | Allowable DC Current<br>Maximum (Amps) | Operating Temperature Range |
|------------------|-------------------------------------|----------------------|------------------------------|----------------------------------------|-----------------------------|
| SDS0908TTEB100   | 10                                  | M: ±20%              | 0.04                         | 3.00                                   | -20°C to +80°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                                   | -20°C to +80°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                                   | -20°C to +80°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                                   |                             |

## applications and ratings (continued)

| Part Designation | Nominal Inductance<br>L (μH) @ 1KHz | Inductance Tolerance | DC Resistance<br>Maximum<br>(Ω) | Allowable DC Current<br>Maximum<br>(Amps) | Operating Temperature Range |
|------------------|-------------------------------------|----------------------|---------------------------------|-------------------------------------------|-----------------------------|
| SDS1005TTEB150   | 15                                  | M: ±20%              | 0.085                           | 1.70                                      | -20°C to +80°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                                       | -20°C to +80°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                                      | -20°C to +80°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                                 | K: ±10%              | 260                             | 1.00                                      |                             |
| SDS1206TTEB151   | 150                                 |                      | 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                                      |                             |

## 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                                | -20°C to +80°C              |
| SDS1206TTEB821   | 820                              |                      | 1700                      | 0.35                                |                             |
| SDS1208TTEB2R5M  | 2.5                              | M: ±20%              | 11.4                      | 7.50                                | -20°C to +80°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                                |                             |