

SPECIFICATION OF BS□□□□DOCC SERIES

FEATURES

1. Open magnetic circuit construction.
2. High energy storage and very low resistance.
3. Compact and thin.

APPLICATIONS

Excellent as DC to DC converter used in Notebook computers , PDA , Mobile phone , Step-down converters.

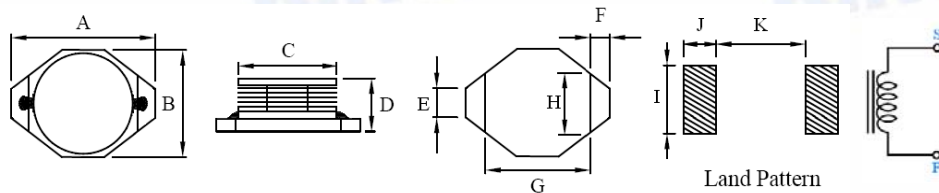


ORDERING CODE

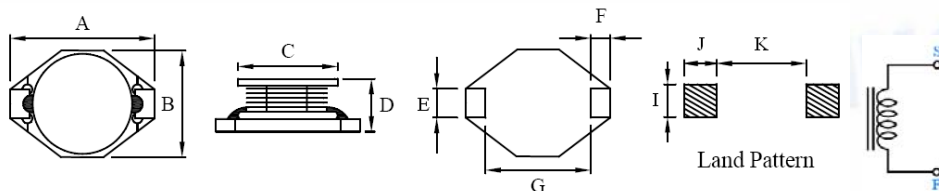
BS1306DOCC **100** **M** **T**
 (1) (2) (3) (4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (M : ±20%, N : ±30%)
- (4) REEL TAPING

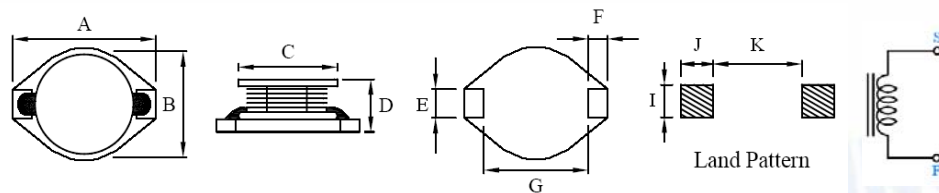
0402 Series



0802 0804 0810 Series



1306 Series



SHAPE & DIMENSIONS

UNIT:mm

| SIZE CODE | A (max) | B (max) | C ±0.3 | D (max) | E ±0.3 | F ±0.3 | G ±0.3 | H ±0.3 | I | J | K |
|------------|------------|------------|-----------|------------|-----------|-----------|-----------|-----------|------|------|-------|
| BS0402DOCC | 6.60 | 4.45 | 4.00 | 2.92 | 1.27 | 1.02 | 4.32 | 2.50 | 3.56 | 1.40 | 4.06 |
| BS0802DOCC | 12.95 | 9.40 | 8.38 | 3.00 | 2.54 | 2.54 | 7.62 | - | 2.79 | 2.92 | 7.37 |
| BS0804DOCC | 12.95 | 9.40 | 8.38 | 5.21 | 2.54 | 2.54 | 7.62 | - | 2.79 | 2.92 | 7.37 |
| BS0810DOCC | 12.95 | 9.40 | 8.38 | 11.43 | 2.54 | 2.54 | 7.62 | - | 2.79 | 2.92 | 7.37 |
| BS1306DOCC | 18.54 | 15.24 | 12.70 | 7.11 | 2.54 | 2.54 | 12.70 | - | 2.79 | 2.92 | 12.45 |

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SMD POWER INDUCTORS → BS□□□□DOCC SERIES

ELECTRICAL CHARACTERISTIC

| Stamp | L (μH) | RDC (ohm) max | | | | | IDC (A) max | | | | |
|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | BS 0402 DOCC | BS 0802 DOCC | BS 0804 DOCC | BS 0810 DOCC | BS 1306 DOCC | BS 0402 DOCC | BS 0802 DOCC | BS 0804 DOCC | BS 0810 DOCC | BS 1306 DOCC |
| | | 1R0M | 1.0 | 0.050 | - | 0.009 | - | 0.009 | 2.90 | - | 9.00 |
| 1R5M | 1.5 | 0.050 | - | 0.010 | - | - | 2.60 | - | 8.00 | - | - |
| 2R2M | 2.2 | 0.070 | - | 0.012 | - | 0.014 | 2.30 | - | 7.00 | - | 16.00 |
| 3R3M | 3.3 | 0.080 | - | 0.015 | - | 0.015 | 2.00 | - | 6.40 | - | 14.00 |
| 4R7M | 4.7 | 0.090 | - | 0.018 | - | - | 1.50 | - | 5.40 | - | - |
| 5R6M | 5.6 | - | - | - | - | 0.020 | - | - | - | - | 12.00 |
| 6R8M | 6.8 | 0.130 | - | 0.027 | - | - | 1.20 | - | 4.60 | - | - |
| 100M | 10 | 0.160 | 0.110 | 0.038 | 0.040 | 0.031 | 1.10 | 2.40 | 3.80 | 8.00 | 10.00 |
| 150M | 15 | 0.230 | 0.150 | 0.046 | 0.050 | 0.036 | 0.90 | 2.00 | 3.00 | 7.00 | 8.00 |
| 220M | 22 | 0.370 | 0.230 | 0.085 | 0.066 | 0.047 | 0.70 | 1.60 | 2.60 | 5.50 | 7.00 |
| 330M | 33 | 0.510 | 0.300 | 0.100 | 0.080 | 0.066 | 0.58 | 1.40 | 2.00 | 4.00 | 5.50 |
| 470M | 47 | 0.640 | 0.390 | 0.140 | 0.110 | 0.086 | 0.50 | 1.00 | 1.60 | 3.80 | 4.50 |
| 680M | 68 | 0.860 | 0.660 | 0.200 | 0.170 | 0.130 | 0.40 | 0.90 | 1.40 | 3.00 | 3.50 |
| 101M | 100 | 1.270 | 0.840 | 0.280 | 0.220 | 0.190 | 0.31 | 0.70 | 1.20 | 2.50 | 3.00 |
| 151M | 150 | 2.000 | 1.200 | 0.400 | 0.340 | 0.250 | 0.27 | 0.60 | 1.00 | 2.00 | 2.60 |
| 221M | 220 | 3.110 | 1.900 | 0.610 | 0.440 | 0.380 | 0.22 | 0.50 | 0.80 | 1.60 | 2.40 |
| 331M | 330 | 3.800 | 2.700 | 1.020 | 0.700 | 0.560 | 0.18 | 0.40 | 0.60 | 1.20 | 1.90 |
| 471M | 470 | 5.060 | 4.000 | 1.270 | 0.950 | 0.850 | 0.16 | 0.30 | 0.50 | 1.00 | 1.40 |
| 681M | 680 | 9.200 | 5.300 | 2.020 | 1.200 | 1.100 | 0.14 | 0.20 | 0.40 | 1.00 | 1.20 |
| 102M | 1000 | 13.800 | 8.400 | 3.000 | 2.000 | 1.800 | 0.10 | 0.10 | 0.30 | 0.80 | 1.00 |

Test Freq. : 100KHz / 0.1V

Tolerance : M± 20% ,N± 30%

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ELECTRICAL CHARACTERISTIC

| ORDERING CODE | Inductance (μ H) | Test Frequency (KHz) | DC Resistance (Ω)max | IDC (A)max |
|-----------------|--------------------------|-------------------------|----------------------------------|---------------|
| BS1306DOCC1R0MT | 1.0 | 100 | 0.009 | 20.00 |
| BS1306DOCC2R2MT | 2.2 | 100 | 0.014 | 16.00 |
| BS1306DOCC3R3MT | 3.3 | 100 | 0.015 | 14.00 |
| BS1306DOCC5R6MT | 5.6 | 100 | 0.020 | 12.00 |
| BS1306DOCC100MT | 10.0 | 100 | 0.031 | 10.00 |
| BS1306DOCC150MT | 15.0 | 100 | 0.036 | 8.00 |
| BS1306DOCC220MT | 22.0 | 100 | 0.047 | 7.00 |
| BS1306DOCC330MT | 33.0 | 100 | 0.066 | 5.50 |
| BS1306DOCC470MT | 47.0 | 100 | 0.086 | 4.50 |
| BS1306DOCC680MT | 68.0 | 100 | 0.130 | 3.50 |
| BS1306DOCC101MT | 100.0 | 100 | 0.190 | 3.00 |
| BS1306DOCC151MT | 150.0 | 100 | 0.250 | 2.60 |
| BS1306DOCC221MT | 220.0 | 100 | 0.380 | 2.40 |
| BS1306DOCC331MT | 330.0 | 100 | 0.560 | 1.90 |
| BS1306DOCC471MT | 470.0 | 100 | 0.850 | 1.40 |
| BS1306DOCC681MT | 680.0 | 100 | 1.100 | 1.20 |
| BS1306DOCC102MT | 1000.0 | 100 | 1.800 | 1.00 |

Test Freq.: 100KHz/0.1V

Tolerance : M \pm 20% ,N \pm 30%

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