

# 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.

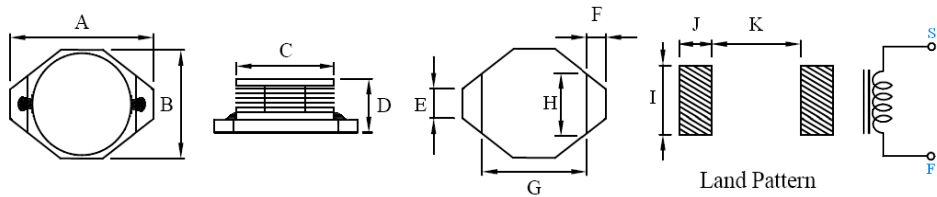


## ORDERING CODE

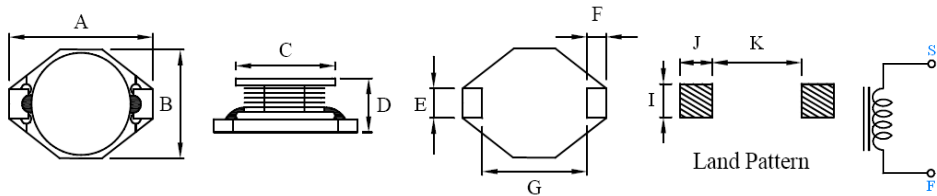
**BS0802DOCC** 100 M T  
(1) (2) (3) (4)

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

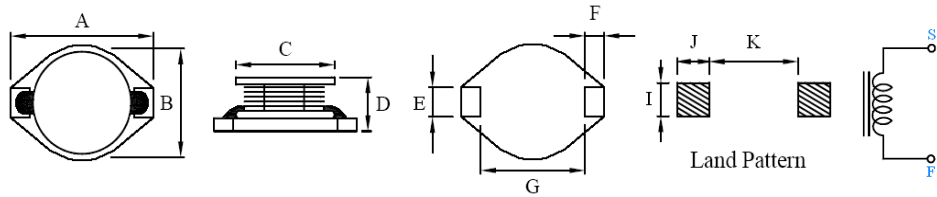
### 0402 Series



### 0802 0804 0810 Series



### 1306 Series



## SHAPE & DIMENSIONS

UNIT:mm

| SIZE CODE  | A<br>(max) | B<br>(max) | C<br>±0.3 | D<br>(max) | E<br>±0.3 | F<br>±0.3 | G<br>±0.3 | H<br>±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<br>(μH) | RDC (ohm) max      |                    |                    |                    |                    | IDC (A) max        |                    |                    |                    |                    |
|-------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|       |           | BS<br>0402<br>DOCC | BS<br>0802<br>DOCC | BS<br>0804<br>DOCC | BS<br>0810<br>DOCC | BS<br>1306<br>DOCC | BS<br>0402<br>DOCC | BS<br>0802<br>DOCC | BS<br>0804<br>DOCC | BS<br>0810<br>DOCC | BS<br>1306<br>DOCC |
| 1R0M  | 1.0       | 0.050              | -                  | 0.009              | -                  | 0.009              | 2.90               | -                  | 9.00               | -                  | 20.00              |
| 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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# SMD POWER INDUCTORS → BS0802DOCC SERIES

## ELECTRICAL CHARACTERISTIC

| ORDERING CODE   | Inductance<br>( $\mu$ H) | Test Frequency<br>(KHz) | DC Resistance<br>( $\Omega$ )max | IDC<br>(A)max |
|-----------------|--------------------------|-------------------------|----------------------------------|---------------|
| BS0802DOCC100MT | 10.0                     | 100                     | 0.110                            | 2.40          |
| BS0802DOCC150MT | 15.0                     | 100                     | 0.150                            | 2.00          |
| BS0802DOCC220MT | 22.0                     | 100                     | 0.230                            | 1.60          |
| BS0802DOCC330MT | 33.0                     | 100                     | 0.300                            | 1.40          |
| BS0802DOCC470MT | 47.0                     | 100                     | 0.390                            | 1.00          |
| BS0802DOCC680MT | 68.0                     | 100                     | 0.660                            | 0.90          |
| BS0802DOCC101MT | 100.0                    | 100                     | 0.840                            | 0.70          |
| BS0802DOCC151MT | 150.0                    | 100                     | 1.200                            | 0.60          |
| BS0802DOCC221MT | 220.0                    | 100                     | 1.900                            | 0.50          |
| BS0802DOCC331MT | 330.0                    | 100                     | 2.700                            | 0.40          |
| BS0802DOCC471MT | 470.0                    | 100                     | 4.000                            | 0.30          |
| BS0802DOCC681MT | 680.0                    | 100                     | 5.300                            | 0.20          |
| BS0802DOCC102MT | 1000.0                   | 100                     | 8.400                            | 0.10          |

Test Freq.:100KHz/0.1V

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

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