

# 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.

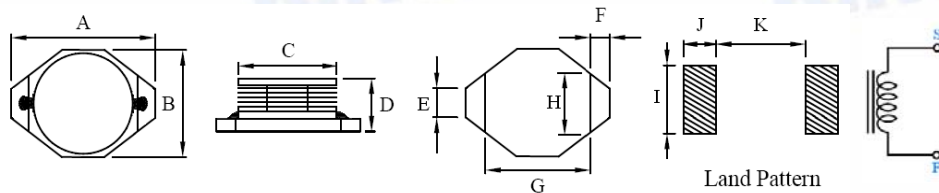


## ORDERING CODE

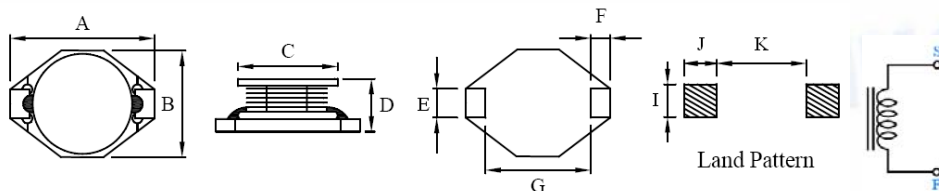
**BS0402DOCC** **100** **M** **T**  
 (1) (2) (3) (4)

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

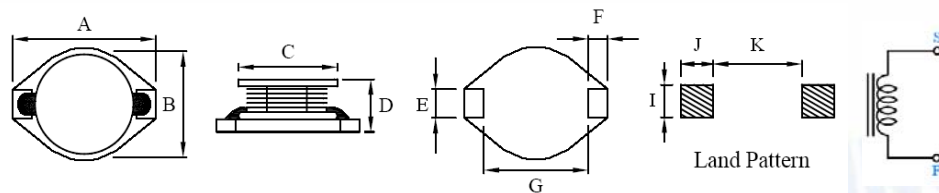
### 0402 Series



### 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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# SMD POWER INDUCTORS → BS0402DOCC SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	Test Frequency (KHz)	DC Resistance ( $\Omega$ )max	IDC (A)max
BS0402DOCC1R0MT	1.0	100	0.050	2.90
BS0402DOCC1R5MT	1.5	100	0.050	2.60
BS0402DOCC2R2MT	2.2	100	0.070	2.30
BS0402DOCC3R3MT	3.3	100	0.080	2.00
BS0402DOCC4R7MT	4.7	100	0.090	1.50
BS0402DOCC6R8MT	6.8	100	0.130	1.20
BS0402DOCC100MT	10.0	100	0.160	1.10
BS0402DOCC150MT	15.0	100	0.230	0.90
BS0402DOCC220MT	22.0	100	0.370	0.70
BS0402DOCC330MT	33.0	100	0.510	0.58
BS0402DOCC470MT	47.0	100	0.640	0.50
BS0402DOCC680MT	68.0	100	0.860	0.40
BS0402DOCC101MT	100.0	100	1.270	0.31
BS0402DOCC151MT	150.0	100	2.000	0.27
BS0402DOCC221MT	220.0	100	3.110	0.22
BS0402DOCC331MT	330.0	100	3.800	0.18
BS0402DOCC471MT	470.0	100	5.060	0.16
BS0402DOCC681MT	680.0	100	9.200	0.14
BS0402DOCC102MT	1000.0	100	13.800	0.10

Test Freq.: 100KHz/0.1V

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

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