

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.

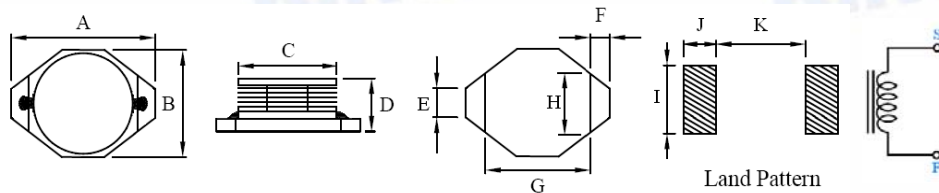


ORDERING CODE

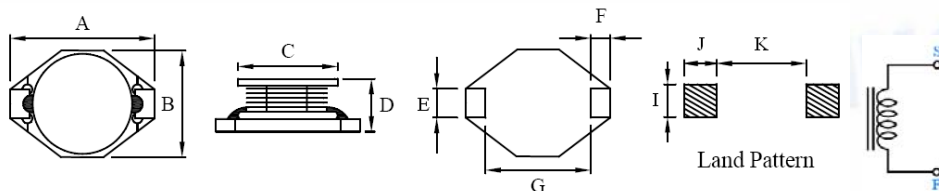
BS0402DOCC **100** **M** **T**
 (1) (2) (3) (4)

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

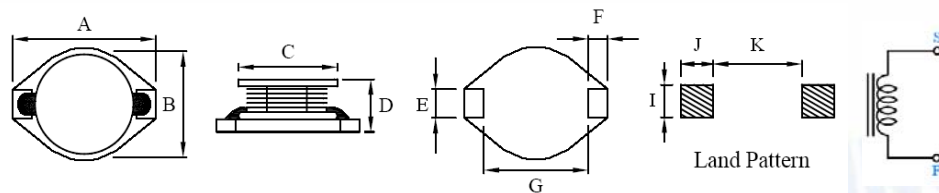
0402 Series



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 (μ H)	Test Frequency (KHz)	DC Resistance (Ω)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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SMD POWER INDUCTORS → BS0802DOCC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	IDC (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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SMD POWER INDUCTORS → BS0804DOCC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	IDC (A)max
BS0804DOCC1R0MT	1.0	100	0.009	9.00
BS0804DOCC1R5MT	1.5	100	0.010	8.00
BS0804DOCC2R2MT	2.2	100	0.012	7.00
BS0804DOCC3R3MT	3.3	100	0.015	6.40
BS0804DOCC4R7MT	4.7	100	0.018	5.40
BS0804DOCC6R8MT	6.8	100	0.027	4.60
BS0804DOCC100MT	10.0	100	0.038	3.80
BS0804DOCC150MT	15.0	100	0.046	3.00
BS0804DOCC220MT	22.0	100	0.085	2.60
BS0804DOCC330MT	33.0	100	0.100	2.00
BS0804DOCC470MT	47.0	100	0.140	1.60
BS0804DOCC680MT	68.0	100	0.200	1.40
BS0804DOCC101MT	100.0	100	0.280	1.20
BS0804DOCC151MT	150.0	100	0.400	1.00
BS0804DOCC221MT	220.0	100	0.610	0.80
BS0804DOCC331MT	330.0	100	1.020	0.60
BS0804DOCC471MT	470.0	100	1.270	0.50
BS0804DOCC681MT	680.0	100	2.020	0.40
BS0804DOCC102MT	1000.0	100	3.000	0.30

Test Freq.: 100KHz/0.1V

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

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SMD POWER INDUCTORS → BS0810DOCC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	IDC (A)max
BS0810DOCC100MT	10.0	100	0.040	8.00
BS0810DOCC150MT	15.0	100	0.050	7.00
BS0810DOCC220MT	22.0	100	0.066	5.50
BS0810DOCC330MT	33.0	100	0.080	4.00
BS0810DOCC470MT	47.0	100	0.110	3.80
BS0810DOCC680MT	68.0	100	0.170	3.00
BS0810DOCC101MT	100.0	100	0.220	2.50
BS0810DOCC151MT	150.0	100	0.340	2.00
BS0810DOCC221MT	220.0	100	0.440	1.60
BS0810DOCC331MT	330.0	100	0.700	1.20
BS0810DOCC471MT	470.0	100	0.950	1.00
BS0810DOCC681MT	680.0	100	1.200	1.00
BS0810DOCC102MT	1000.0	100	2.000	0.80

Test Freq.: 100KHz/0.1V

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

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SMD POWER INDUCTORS → BS1306DOCC SERIES

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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