

SMD POWER INDUCTOR

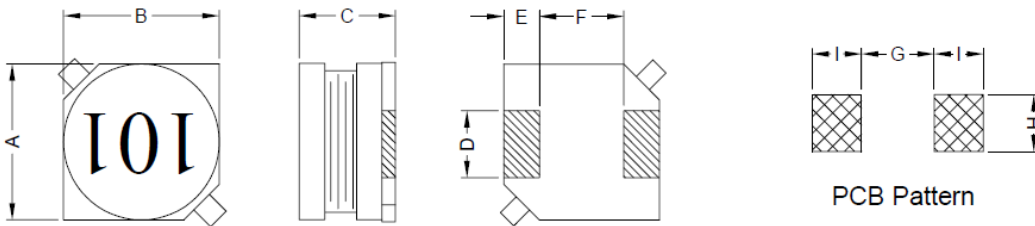
SERIE: MSB1003 10,0 x 10,0 x 3,0mm

DIMENSIONS:

VPE: 1000pcs.



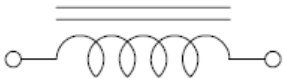
RoHS Compliant



Unit:m/m

A	B	C	D	E	F	G	H	I
10.0±0.3	10.0±0.3	3.0±0.3	2.4±0.2	2.0±0.2	6.0±0.2	5.7 Ref.	2.8 Ref.	2.5 Ref.

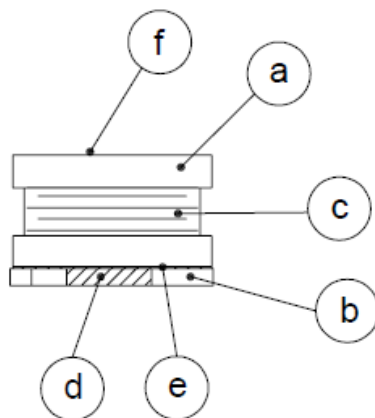
SCHEMATIC:



GENERAL SPECIFICATION :

- 1- Temp. rise: 40°C Max.
- 2- Operating temp. : -40°C to + 85°C
- 3- Storage temp. : -40°C to + 125°C
- 4- Rated current: Base on temp. rise & $\Delta L/L0A=10\%$ Max.
- 5- Resistance to solder heat: 260°C. 10sec.

MATERIALS:



- (a) Core : DR Ferrite Core
- (b) Base : LCP
- (c) Wire : Enamelled Copper Wire
- (d) Terminal : Tinned Copper Plate
- (e) Adhesive : Epoxy
- (f) Ink : Bon Margue

NOTE : Specifications subject to change without notice. Please check our website for latest information.

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ELECTRICAL CHARACTERISTICS:

Part No.	L (μ H)	Tolerance	Test Frequency (MHz)	RDC (m Ω) Max	IDC (A)
MSB1003 - 1R8	1,8	20%	1V / 100K	27	4,00
MSB1003 - 2R7	2,7	20%	1V / 100K	30	3,65
MSB1003 - 3R9	3,9	20%	1V / 100K	35	3,15
MSB1003 - 4R7	4,7	20%	1V / 100K	40	3,00
MSB1003 - 6R8	6,8	20%	1V / 100K	50	2,35
MSB1003 - 100	10	20%	1V / 100K	60	2,20
MSB1003 - 120	12	20%	1V / 100K	80	2,00
MSB1003 - 150	15	20%	1V / 100K	100	1,75
MSB1003 - 180	18	15%	1V / 100K	110	1,70
MSB1003 - 220	22	15%	1V / 100K	140	1,60
MSB1003 - 270	27	15%	1V / 100K	160	1,40
MSB1003 - 330	33	15%	1V / 100K	210	1,20
MSB1003 - 390	39	15%	1V / 100K	235	1,10
MSB1003 - 470	47	15%	1V / 100K	280	1,00
MSB1003 - 560	56	15%	1V / 100K	320	0,90
MSB1003 - 680	68	15%	1V / 100K	370	0,85
MSB1003 - 820	82	15%	1V / 100K	430	0,75
MSB1003 - 101	100	10%	1V / 100K	560	0,70
MSB1003 - 121	120	10%	1V / 100K	640	0,60
MSB1003 - 151	150	10%	1V / 100K	730	0,55
MSB1003 - 181	180	10%	1V / 100K	960	0,50
MSB1003 - 221	220	10%	1V / 100K	1100	0,48
MSB1003 - 271	270	10%	1V / 100K	1240	0,45
MSB1003 - 331	330	10%	1V / 100K	1640	0,38
MSB1003 - 391	390	10%	1V / 100K	1790	0,35

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ELECTRICAL CHARACTERISTICS:

Part No.	L (μ H)	Tolerance	Test Frequency (MHz)	RDC ($m\Omega$) Max	IDC (A) Max.
MSB1003 - 471	470	10%	1V / 100K	2050	0,30
MSB1003 - 561	560	10%	1V / 100K	2890	0,29
MSB1003 - 681	680	10%	1V / 100K	3240	0,27
MSB1003 - 821	820	10%	1V / 100K	3700	0,25
MSB1003 - 102	1000	10%	1V / 100K	7000	0,24

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