

MDCA Series

SMD Power Inductor

Size 3012



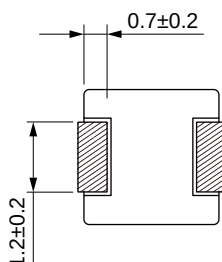
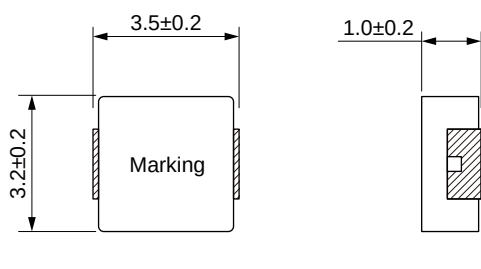
FEATUERS

- Carbonyl Powder.
- Compact design.
- High current , low DCR ,
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- High reliability.
- 100% Lead(Pb)-Free and RoHS compliant.
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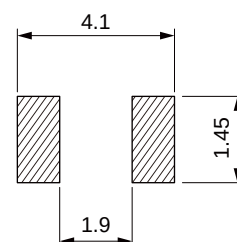
APPLICATION

- Note PC power system , incl. IMVP-6
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Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ.	Current Typ.	DC Resistance Typ.	DC Resistance Max.
MDCA3012-R22M	0.22	±20%		10.0	14.0	17.0
MDCA3012-R33M	0.33	±20%	6.2	9.2	16.0	20.0
MDCA3012-R36M	0.36	±20%	6.0			23.0
MDCA3012-R47M	0.47	±20%		7.2		30.0
		±20%		6.6	31.0	36.0
MDCA3012-R68M	0.68	±20%	4.0	6.1	34.0	40.0
MDCA3012-R82M	0.82	±20%			41.0	48.0
MDCA3012-1R0M	1.00	±20%	3.3			60.0
		±20%	3.0	4.0	71.0	
MDCA3012-2R2M	2.20	±20%	2.7	3.4	98.0	
MDCA3012-3R3M	3.30	±20%	2.0	3.1	191	210
MDCA3012-4R7M	4.70	±20%	1.6	2.8	266	293
		±20%		2.2	310	360
MDCA3012-6R8M	6.80	±20%	1.4	2.0	360	400

Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ.	Current Typ.	DC Resistance Typ.	DC Resistance Max.
MDCA3012-8R2M	8.20	±20%	1.2	1.7	420	463
MDCA3012-100M	10.0	±20%	1.0	1.4	498	

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:

