

MDCA Series

SMD Power Inductor

Size 3015



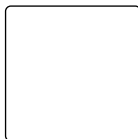
FEATURES

- Carbonyl Powder.
- Compact design.
- High current, low DCR, high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- High reliability.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Operating temperature: -55 to +125 °C (including self-temperature rise)

APPLICATION

- Note PC power system, incl. IMVP-6
- DC/DC converter

Dimensions: [mm]



Dimensions: [mm]	±20%	7.0	10.8	14.0
	±20%	5.5	8.0	25.3
	±20%	5.0	7.2	28.0
	±20%	4.5	6.5	34.0
	±20%	3.6	5.8	41.0
	±20%	3.4	4.0	64.0
	±20%	3.2	3.8	82.0
	±20%	2.5	3.2	170
	±20%	1.9	2.8	220
	±20%	1.7	2.3	265

Land Pattern: [mm]

Electrical Properties:

Part No	Inductance @ 100KHz/1V	Temperature Rise Current Typ.	1.5 Current Typ.	2.0	290
MDCA3015-R22M	0.22	±20%	1.2	1.8	390
MDCA3015-R47M	0.47	±20%		1.6	435
MDCA3015-R56M	0.56				
MDCA3015-R68M	0.68				
MDCA3015-1R0M	1.00				
MDCA3015-1R5M	1.50				
MDCA3015-2R2M	2.20				
MDCA3015-3R3M	3.30				
MDCA3015-4R7M	4.70				
MDCA3015-5R6M	5.60				
MDCA3015-6R8M	6.80				
MDCA3015-8R2M	8.20				
MDCA3015-100M	10.0				

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:

