

MDCA Series

SMD Power Inductor

Size 3015



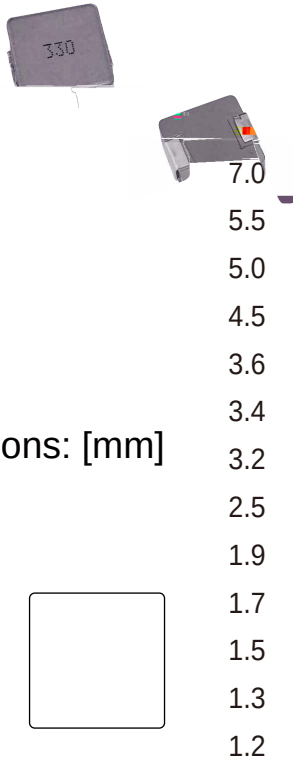
FEATUERS

- 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]



Resistance Typ.	Resistance Max.
14.0	17.0
23.3	28.0
28.0	33.0
34.0	42.0
5.8	50.0
4.0	64.0
3.8	82.0
3.2	170
2.8	220
2.3	265
2.0	290
1.8	390
1.6	435

Land Pattern: [mm]

Electrical Properties:

Part No	Inductance @ 100KHz/1V		Temperature Rise Current Typ.	Current Typ.		
MDCA3015-R22M	0.22					
MDCA3015-R47M	0.47					
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:

