

MDCA Series
SMD Power Inductor
Size 3015



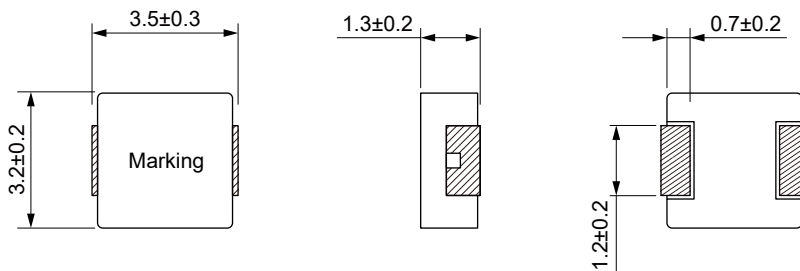
FEATUERS

- 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)

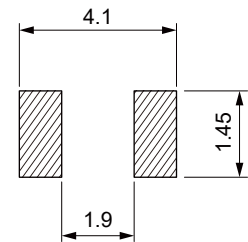
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDCA3015-R22M	0.22	±20%	7.0	10.8	14.0	17.0
MDCA3015-R47M	0.47	±20%	5.5	8.0	23.3	28.0
MDCA3015-R56M	0.56	±20%	5.0	7.2	28.0	33.0
MDCA3015-R68M	0.68	±20%	4.5	6.5	34.0	42.0
MDCA3015-1R0M	1.00	±20%	3.6	5.8	41.0	50.0
MDCA3015-1R5M	1.50	±20%	3.4	4.0	64.0	77.0
MDCA3015-2R2M	2.20	±20%	3.2	3.8	82.0	98.0
MDCA3015-3R3M	3.30	±20%	2.5	3.2	170	205
MDCA3015-4R7M	4.70	±20%	1.9	2.8	220	264
MDCA3015-5R6M	5.60	±20%	1.7	2.3	265	318
MDCA3015-6R8M	6.80	±20%	1.5	2.0	290	348
MDCA3015-8R2M	8.20	±20%	1.3	1.8	390	468
MDCA3015-100M	10.0	±20%	1.2	1.6	435	522

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:

