

# MDCA Series

## SMD Power Inductor

### Size 3020



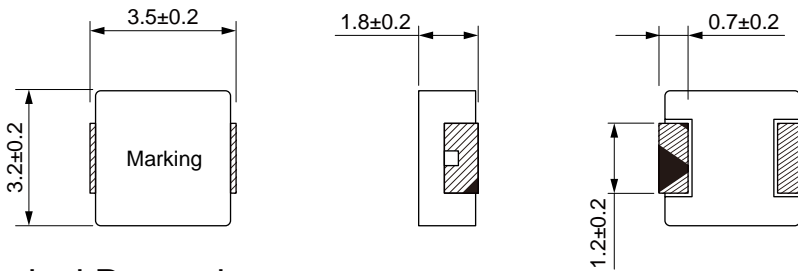
#### FEATUERS

- 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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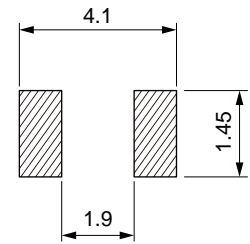
#### APPLICATION

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



#### Land Pattern: [mm]



#### Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (m )	DC Resistance Max. (m )
	0.10			14.0	6.6	9.0
	0.22		9.0	11.2	11.0	14.0
		±20%		10.0	17.0	21.0
	0.47	±20%	7.0	9.0	19.7	
		±20%		7.0		29.0
		±20%		6.0	27.0	
	1.00	±20%	4.0			
		±20%		4.0	42.0	
	2.20	±20%				
		±20%				
	4.70	±20%	2.6		172	200
		±20%	2.2	2.6		
		±20%	1.9	2.2	260	
		±20%	1.6	1.9		
	10.0	±20%	1.4	1.6		422

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:

