



# MDCA Series

## SMD Power Inductor

### Size 3020



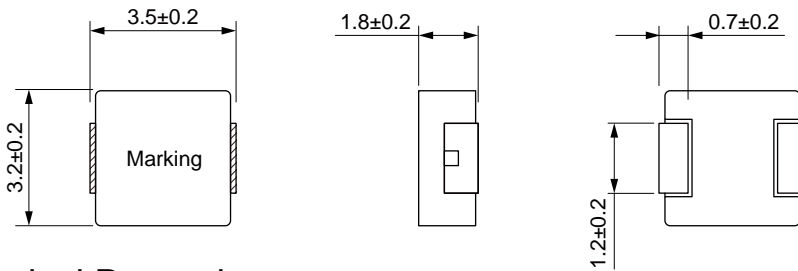
#### FEATURES

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- , , high efficiency.
- Very low acoustic noise and very low leakage flux noise.
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- AEC-Q200 qualified
- Operating temperature: -55 to +125 °C (including self-temperature rise)
- Quantity: 3000pcs

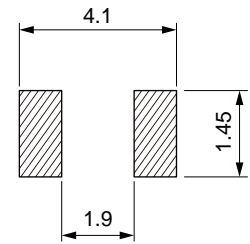
#### APPLICATION

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- DC/DC converter

#### Dimensions: [mm]



#### Land Pattern: [mm]

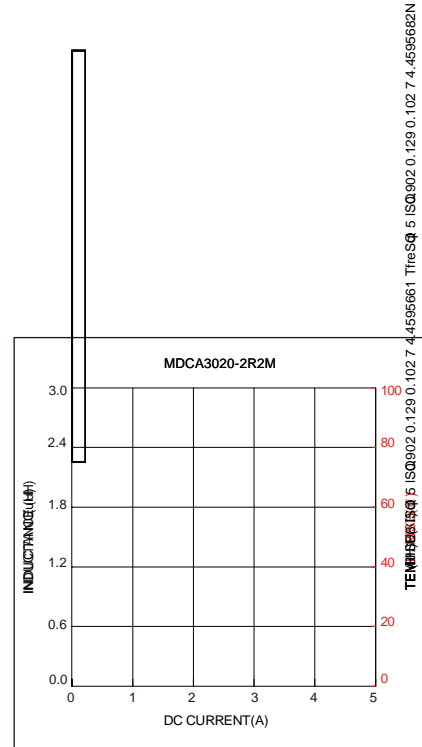
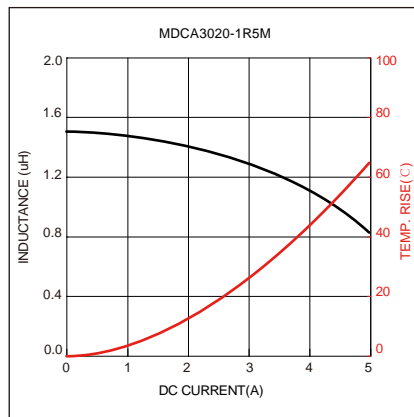


#### Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDCA3020-R10N		±30%	10.5			
MDCA3020-R22N		±30%				
MDCA3020-R33M	0.33		8.0			
MDCA3020-R47M						23.0
MDCA3020-R68M	0.68		5.5		25.5	
MDCA3020-R82M	0.82		4.8			32.0
MDCA3020-1R0M				5.0	32.0	38.0
MDCA3020-1R5M	1.50		3.8			50.0
MDCA3020-2R2M			3.5	3.7	65.0	75.0
MDCA3020-3R3M	3.30		3.0	3.5	125	145
MDCA3020-4R7M				3.0		
MDCA3020-5R6M	5.60				205	238
MDCA3020-6R8M	6.80					300
MDCA3020-8R2M	8.20				340	390
MDCA3020-100M					366	

Saturation Current will cause L to drop approximately 30%

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



ISO9002 0.129 0.102 7.4 4595661 TReSQ 5 ISO902 0.129 0.102 7.4 4595682N

