MDSA Series

SMD Low Profile High Current Molded Inductor

Size 4020



FEATURES

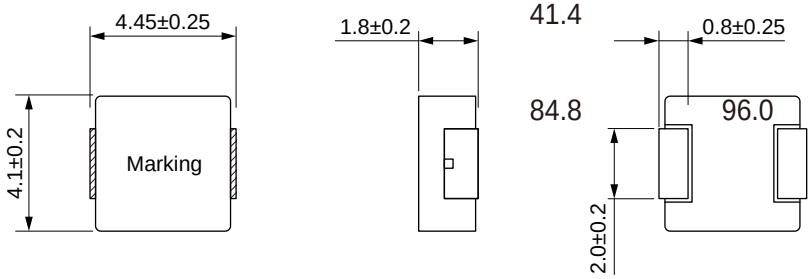
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- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
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- 100% Lead(Pb)-Free and RoHS compliant.
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APPLICATION

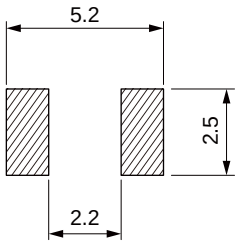
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DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
9.60	11.1
11.7	
19.2	22.2
41.4	
84.8	96.0

Dimensions: [mm]



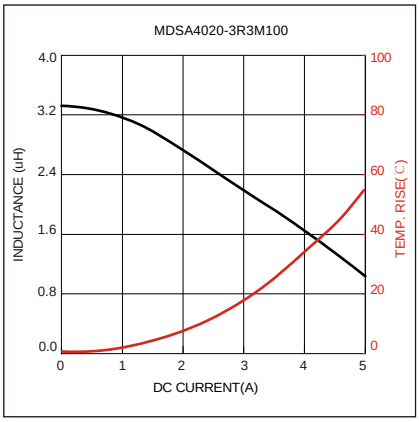
Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @100KHz/1V (μH)			Temperature Rise Current Max. (A)	Satura on Current Typ. (A)	Satura on Current Max. (A)		
MDSA4020-R10M	0.10				26.0	21.1		
MDSA4020-R22M	0.22			12.0				
MDSA4020-R47M	0.47			8.64	9.00	7.70		
MDSA4020-R68M	0.68			7.68	7.60			
MDSA4020-1R0M	1.00			6.24		4.80 4.60		
MDSA4020-2R2M	2.20			4.80				
						2.60		
MDSA4020-4R7M	4.70				2.80	2.40		

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C



Soldering Reflow:

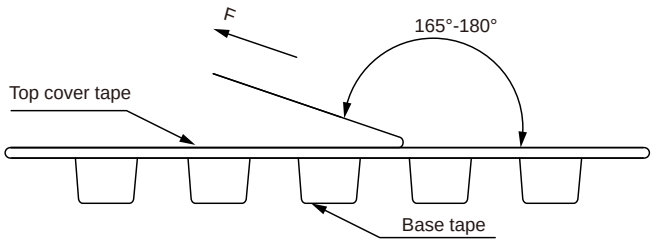
Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~90 sec.

Packaging Information:

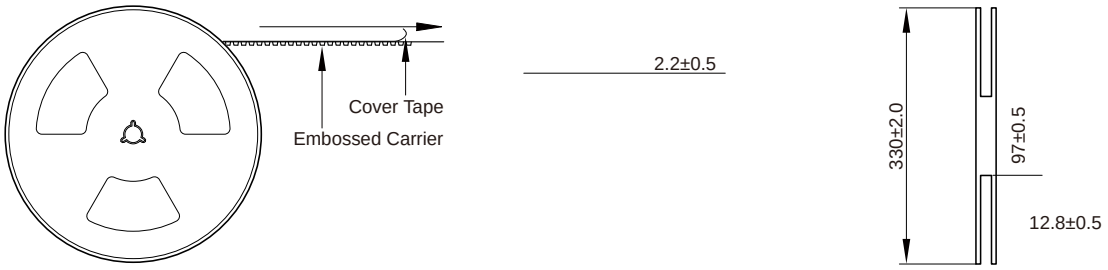
Tape Dimension:

Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Reel Dimension：[mm]



Packaging Quantity: