

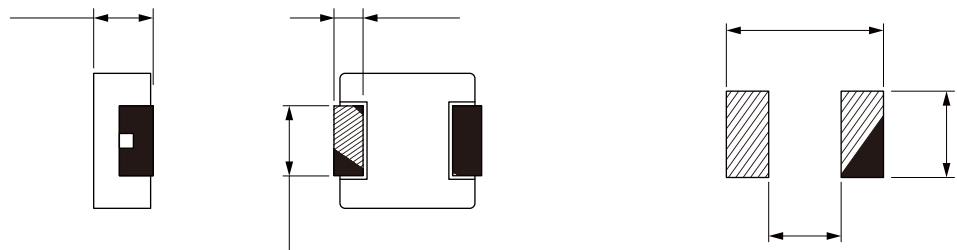
MDCA Series
SMD Power Inductor
Size 5030

FEATUERS

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- , , high e dency.
- 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: 2000pcs

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

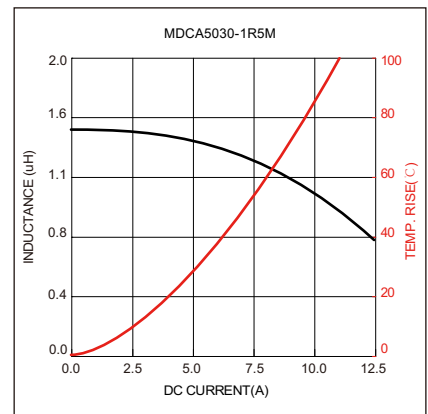
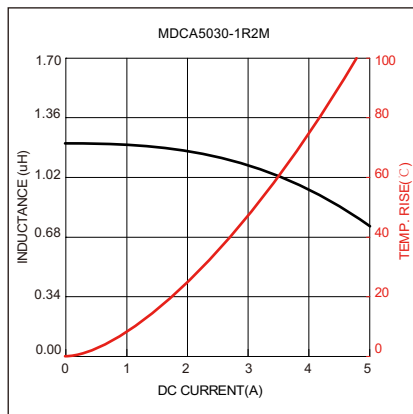
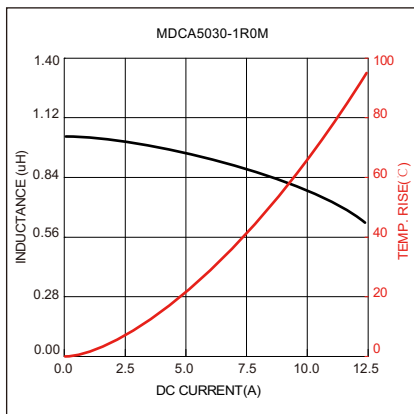
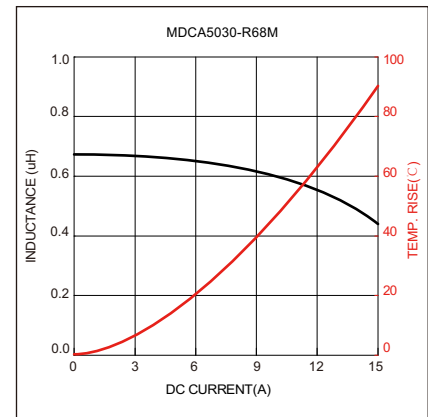
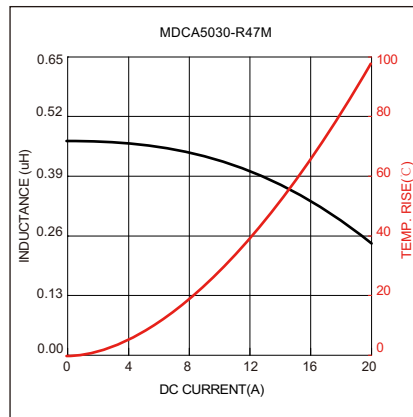
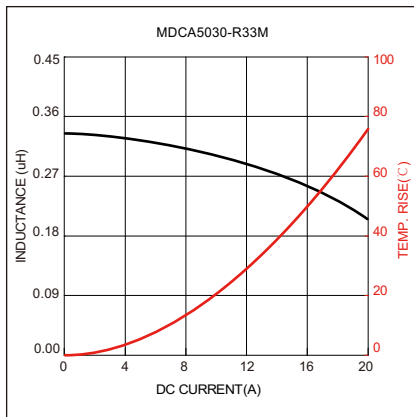
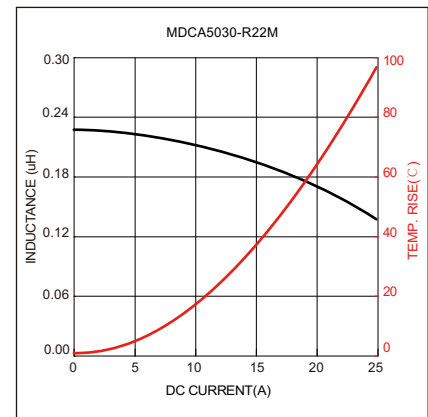
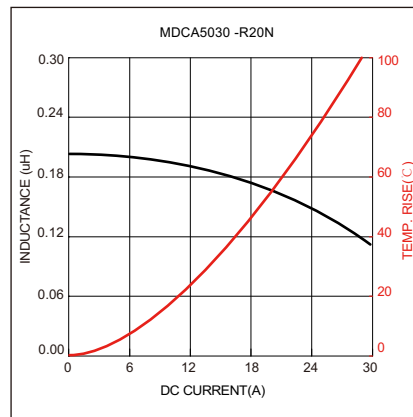
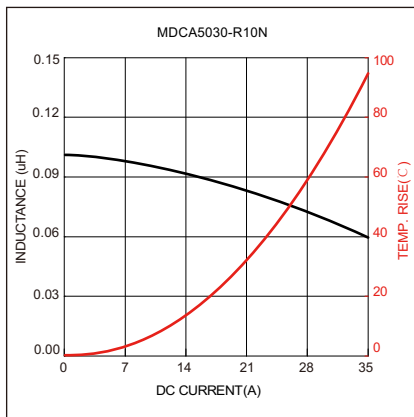
Part No	Inductance @ 100KHz/1V	Tolerance				
MDCA5030-R10N					2.50	
MDCA5030-R20N				25.0		
MDCA5030-R22M			15.5			
MDCA5030-R33M						5.00
MDCA5030-R47M						
MDCA5030-R68M			8.50			
MDCA5030-1R0M						
MDCA5030-1R2M			6.50			
MDCA5030-1R5M	1.50					25.0
MDCA5030-2R2M			5.50		25.0	35.0
MDCA5030-3R3M			5.00			
MDCA5030-3R6M						54.0
MDCA5030-4R7M					50.0	53.0
MDCA5030-5R6M	5.60		4.25	4.50	55.0	
MDCA5030-6R8M						

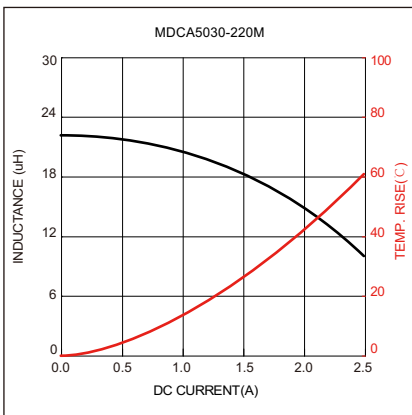
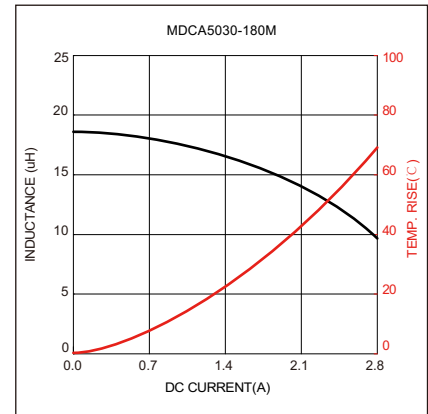
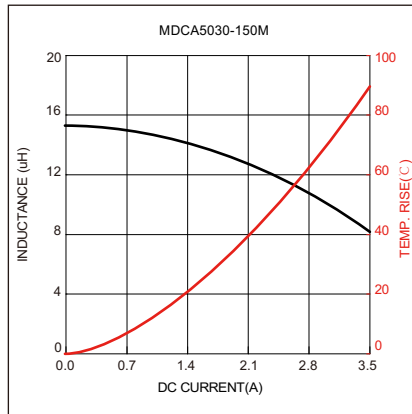
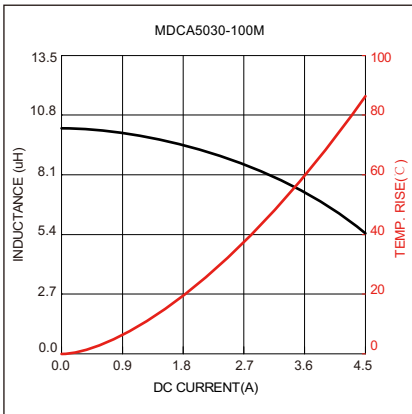
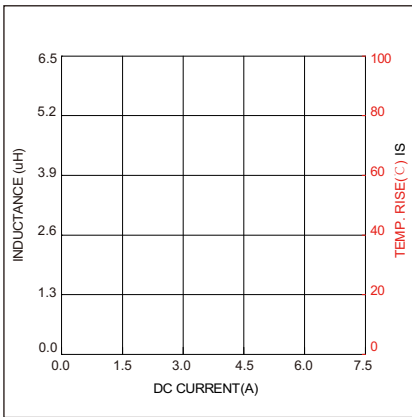
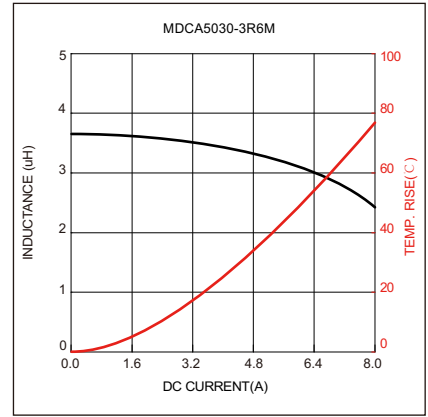
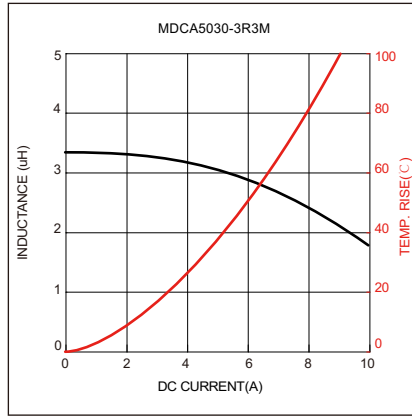
Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ.	Current Typ.	DC Resistance Typ.	DC Resistance Max.
MDCA5030-100M			2.75	3.50		
MDCA5030-150M	15.0				165	
MDCA5030-180M					195	
MDCA5030-220M						250

Saturation Current will cause L to drop approximately 30%

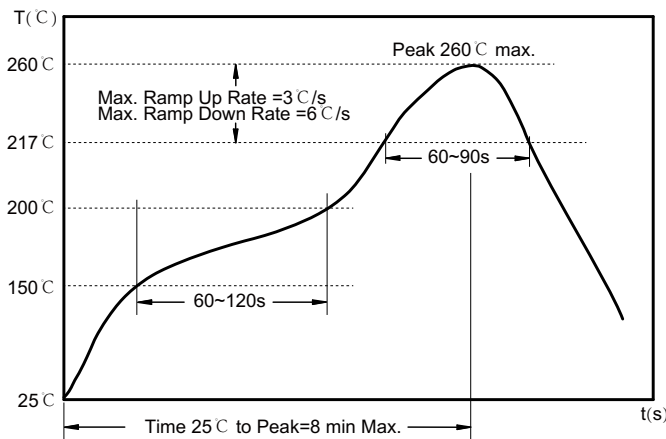
Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:





Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.

Allowed time above 217°C : 60~90 sec.

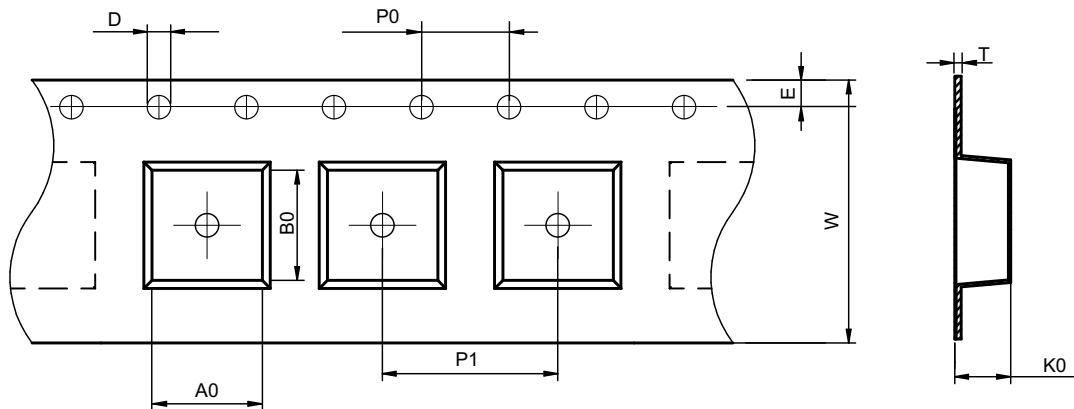
Max temperature: 260°C .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

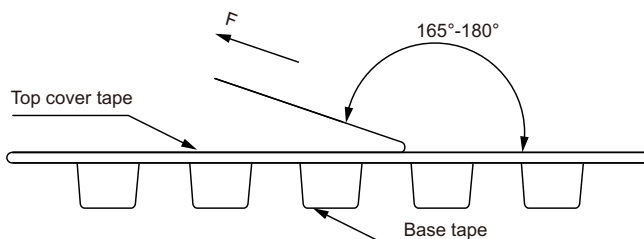
Packaging Information:

Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
5030	5.5±0.1	5.9±0.1	1.5±0.1	4.0±0.1	8.0±0.1	12.0±0.3	3.3±0.1	1.75±0.1	0.35±0.05

Peel force of top cover tape:

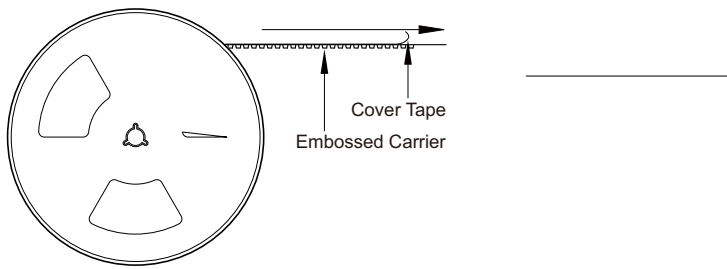


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	K+Printing (Inductance+period)
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Reel Dimension: [mm]



Packaging Quantity: