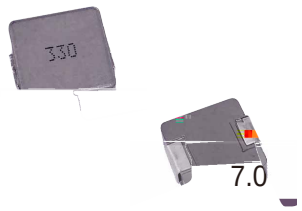
MDCA Series

SMD Power Indutor

Size 3015



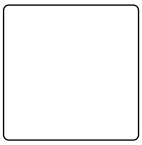
FEATUERS

- 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]



7.0			
5.5			
5.0			
4.5			
3.6			
3.4			
3.2			
2.5			
1.9			
1.7			
1.5			
1.3			
1.2			

Land Pattern: [mm]

	DC Resistance Typ.	DC Resistance Max.	
5.8	14.0	17.0	
4.0	23.3	28.0	
3.8	28.0	33.0	
3.2	34.0	42.0	ő
2.8	41.0	50.0	
2.3	64.0	77.0	
2.0	82.0	98.0	
1.8	170	205	
1.6	220	264	
	265	318	
	290	348	
	390	468	
	435	522	

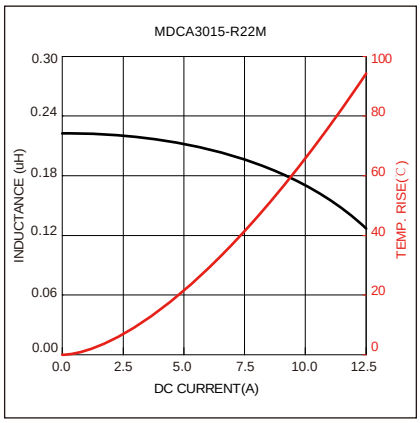
Electrical Properties:

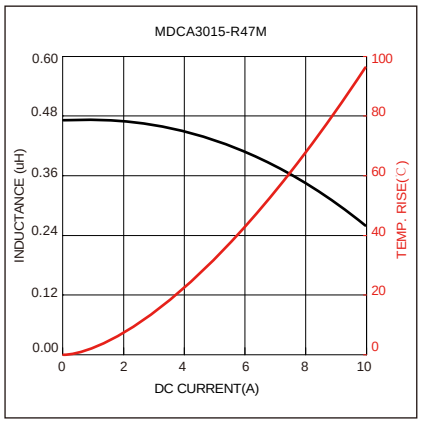
Part No	Inductance @ 100KHz/1V		Temperature Rise Current Typ.	Current Typ.		
MDCA3015-R22M	0.22					
MDCA3015-R47M	0.47					
MDCA3015-R56M	0.56					
MDCA3015-R68M	0.68					
MDCA3015-1R0M	1.00					
MDCA3015-1R5M	1.50					
MDCA3015-2R2M	2.20					
MDCA3015-3R3M	3.30					
MDCA3015-4R7M	4.70					
MDCA3015-5R6M	5.60					
MDCA3015-6R8M	6.80					
MDCA3015-8R2M	8.20					
MDCA3015-100M	10.0					

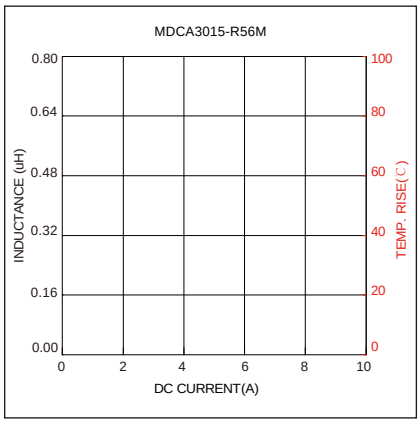
Saturation Current will cause L to drop approximately 30%

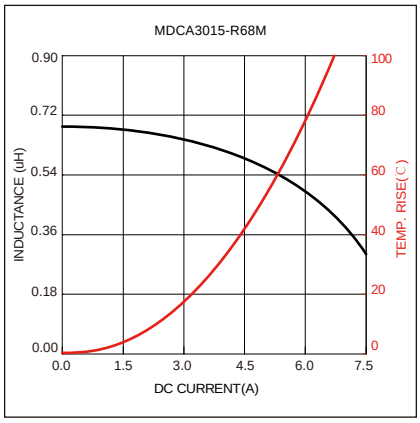
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

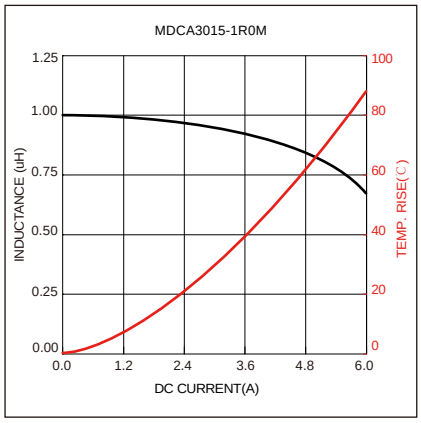
Typical Electrical Characteristics:

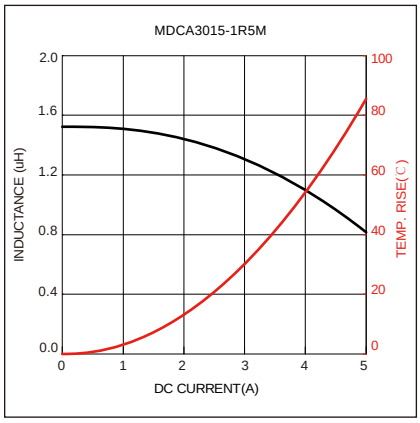


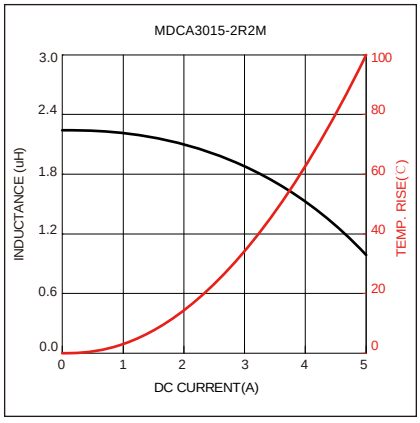


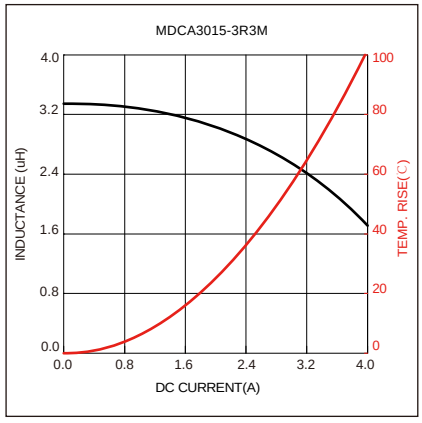


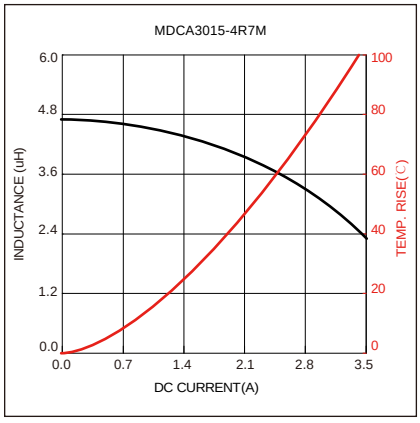


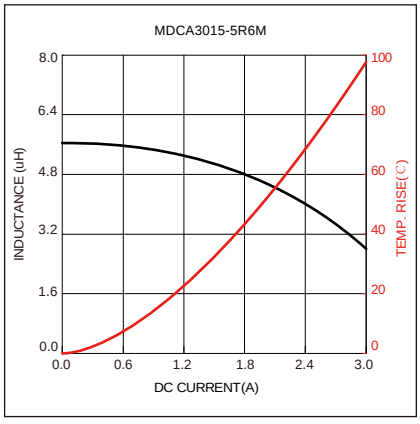












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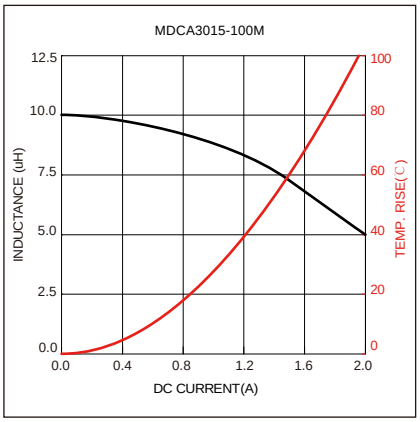
MDCA3015-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
12.5
10.0
7.5
5.0
2.5
0.0
100
80
60
40
20
0
0.0
0.4
0.8
1.2
1.6
2.0