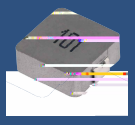

APPLICATION

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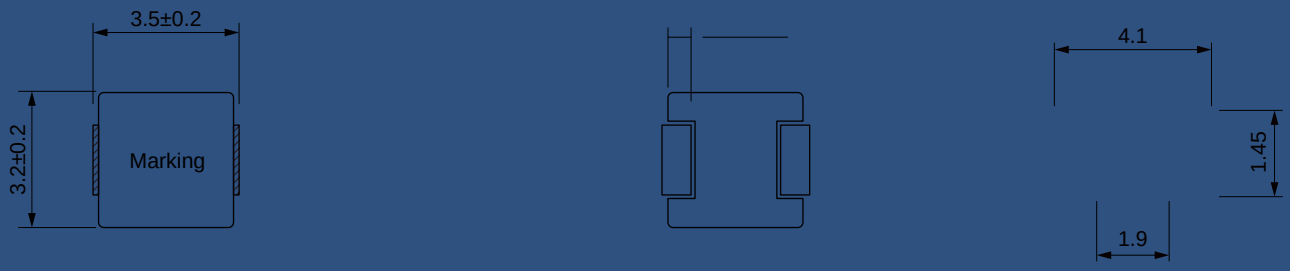


Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
			c¢p			
				y¢p	му¢р	
			р¢л		нр¢л	
а5/!олмнпwрса	л¢рс		п¢р			
			о¢р	р¢у		
				р¢р	рл¢л	
а5/!олмнпмwра	м¢рл					ур¢л
						ммр
а5/!олмнпрwса	р¢сл		м¢р			

A0

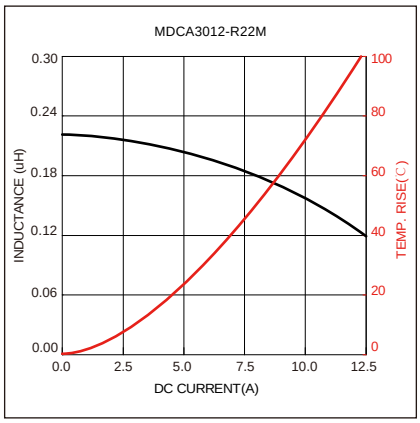
KOHicPeProperties:5 0 -Td6661.026J17p10(eDns:[nm][C)753.38615 4eW842 490.5107]L 37LandPattern:[nm][C)p scn94 0.082 scn1o scn

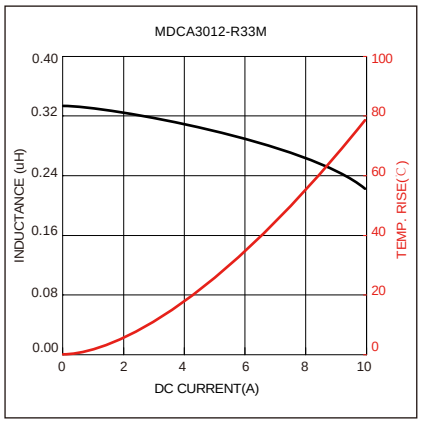
sQ[illegible]AIP[illegible]E

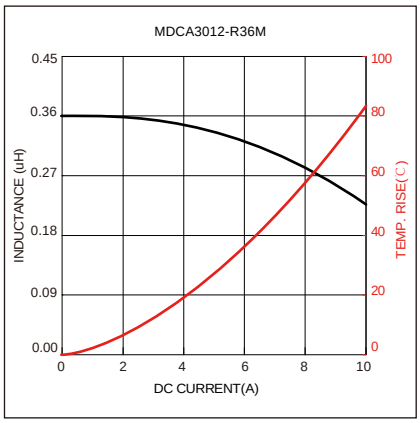
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
						ppл

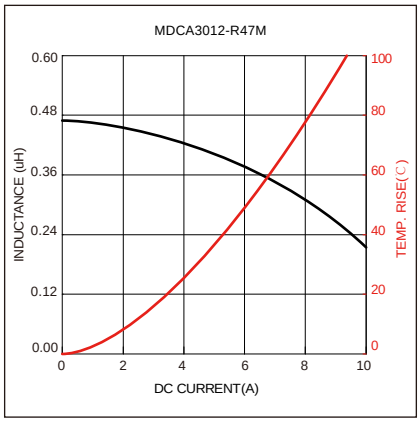
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

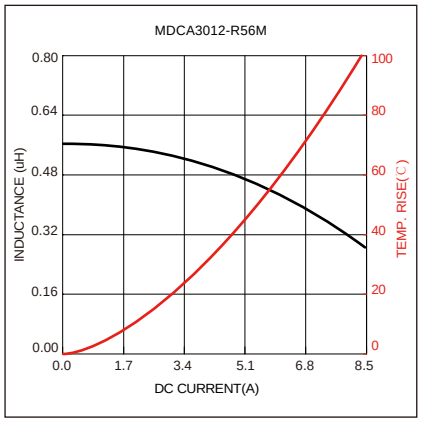
Typical Electrical Characteristics:

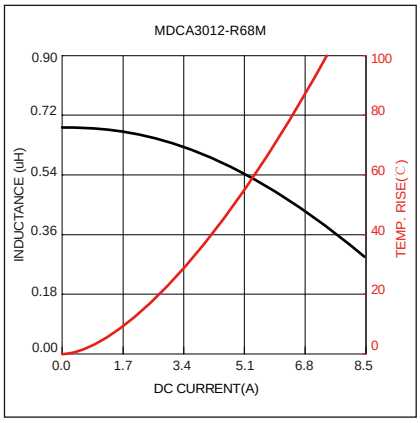


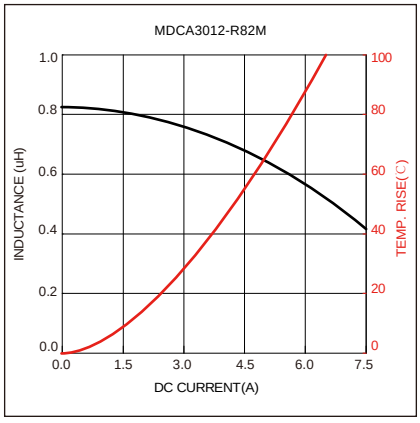


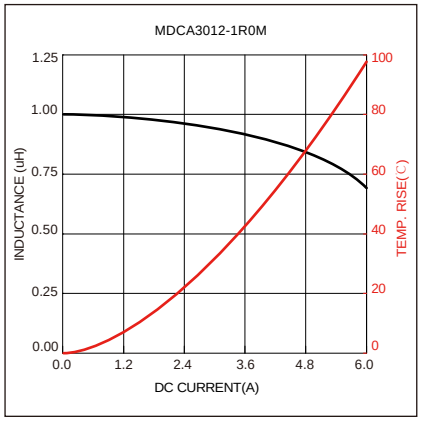


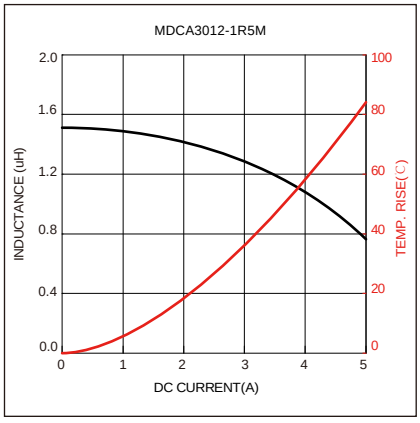


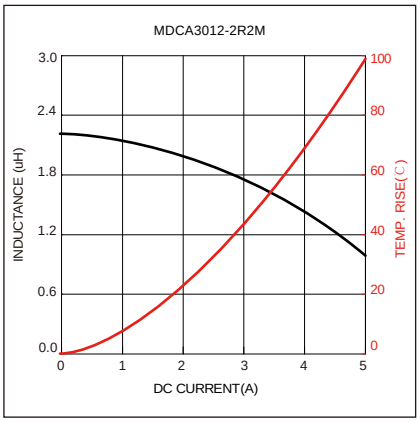


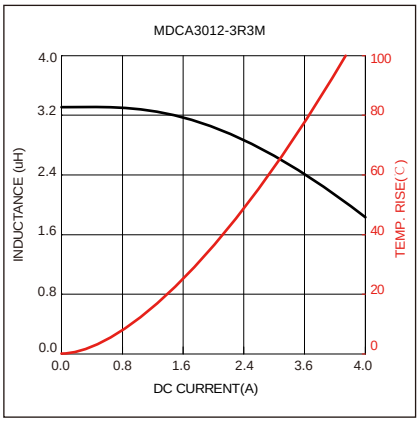


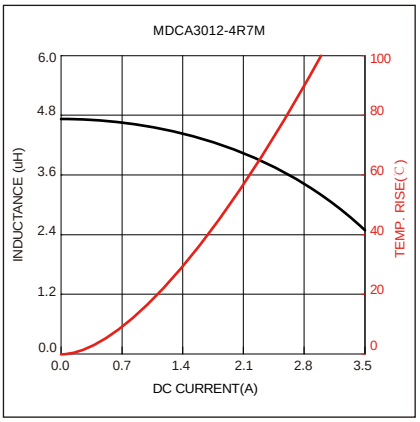


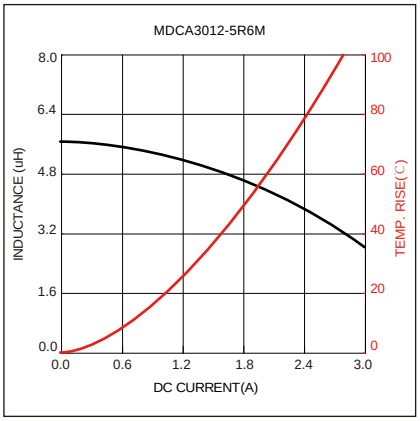


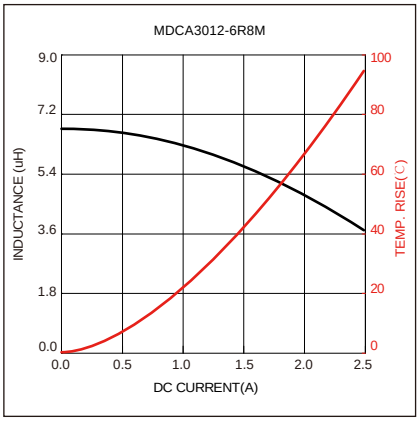


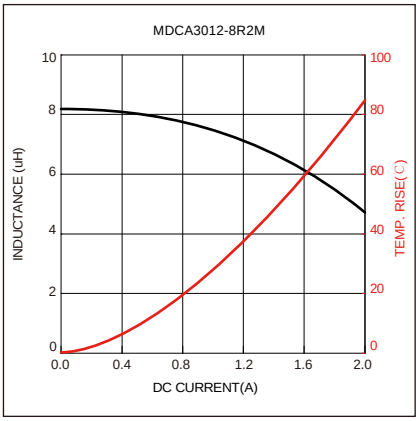

MDCA3012-2R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
3.0
2.4
1.8
1.2
0.6
0.0
100
80
60
40
20
0
0
1
2
3
4
5

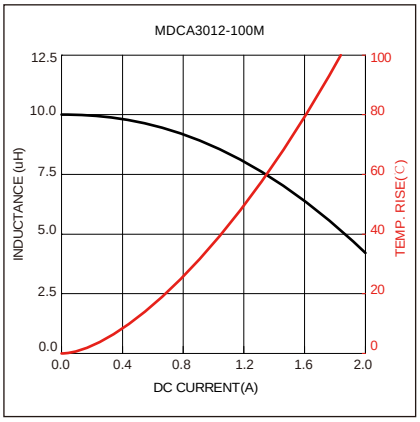

MDCA3012-3R3M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4.0
3.2
2.4
1.6
0.8
0.0
100
80
60
40
20
0
0.0
0.8
1.6
2.4
3.6
4.0


MDCA3012-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.0
4.8
3.6
2.4
1.2
0.0
100
80
60
40
20
0
0.0
0.7
1.4
2.1
2.8
3.5


MDCA3012-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
8.0
6.4
4.8
3.2
1.6
0.0
100
80
60
40
20
0
0.0
0.6
1.2
1.8
2.4
3.0


MDCA3012-6R8M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
9.0
7.2
5.4
3.6
1.8
0.0
100
80
60
40
20
0
0.0
0.5
1.0
1.5
2.0
2.5


MDCA3012-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10
8
6
4
2
0
100
80
60
40
20
0
0.0
0.4
0.8
1.2
1.6
2.0


MDCA3012-100M
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