SMD Power Inductor
Size 7030

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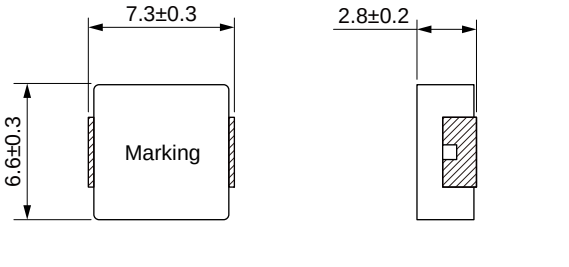
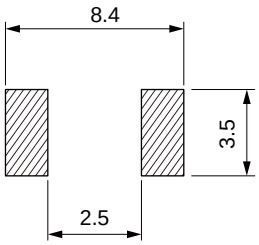
Dimensions: [mm]



Land Pattern: [mm]



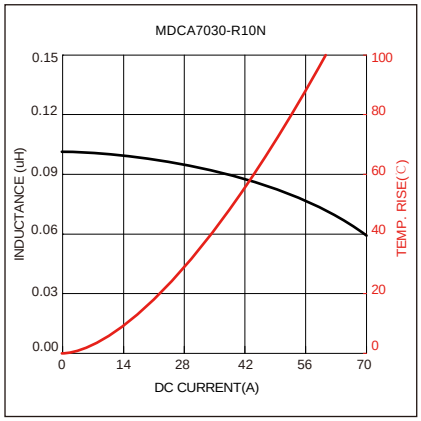
Electrical Properties:

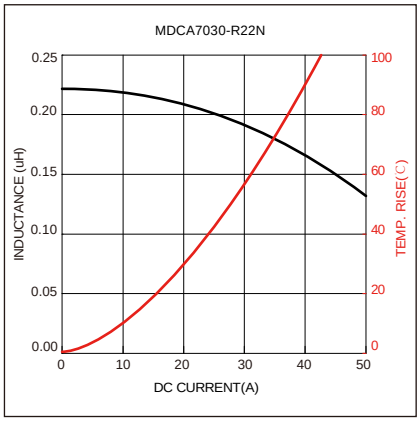
Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)

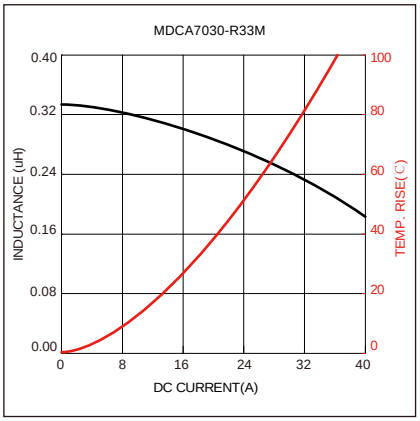
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)

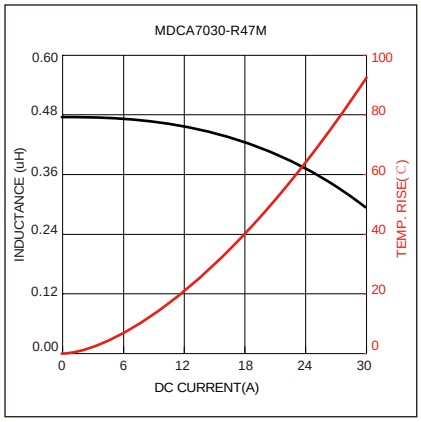
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

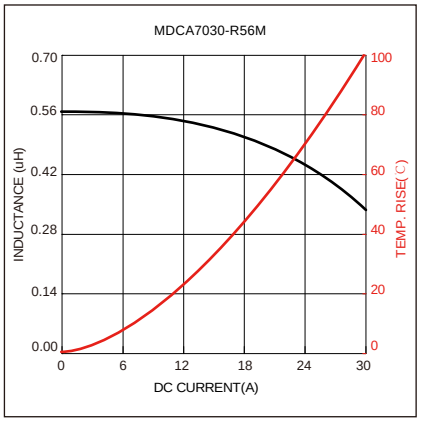
Typical Electrical Characteristics:

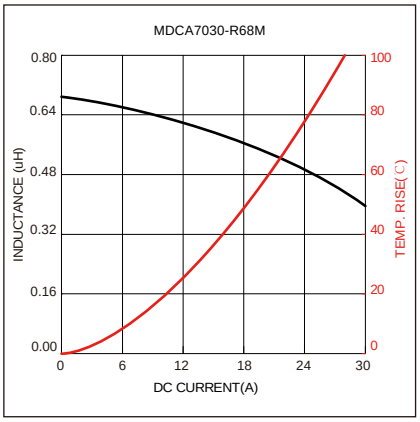


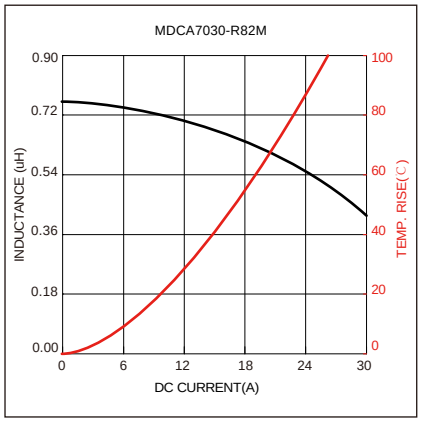


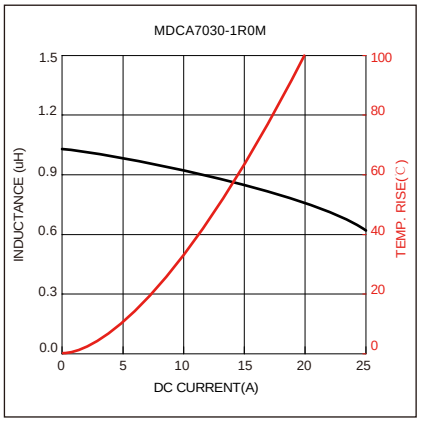


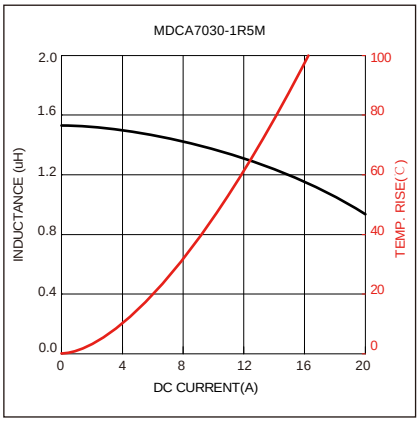


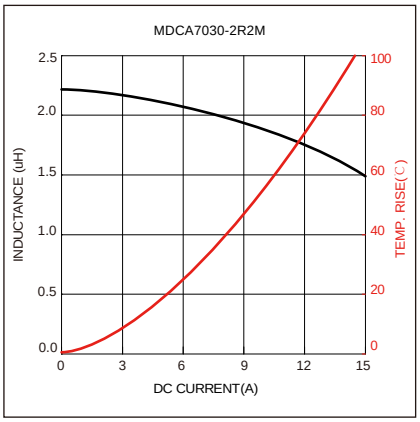


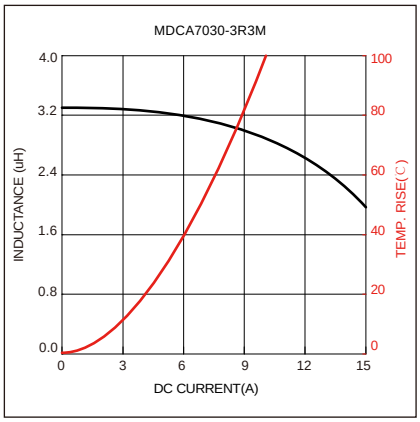


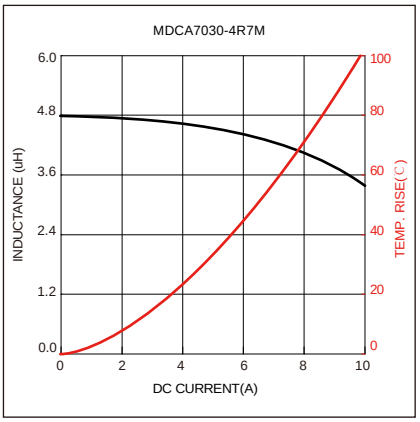


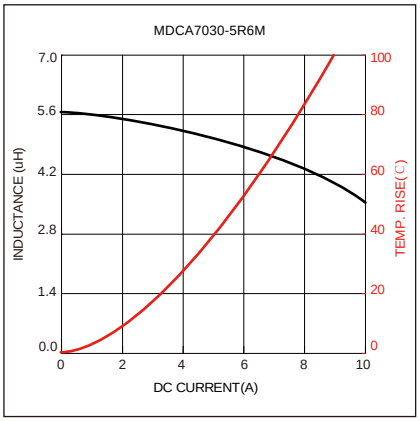


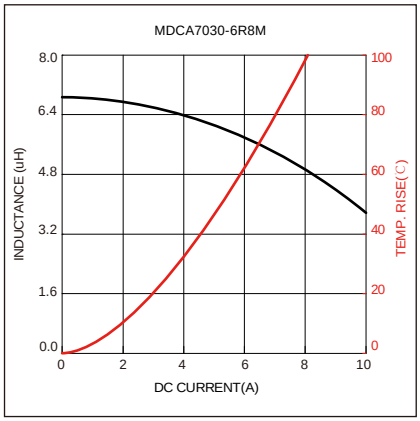


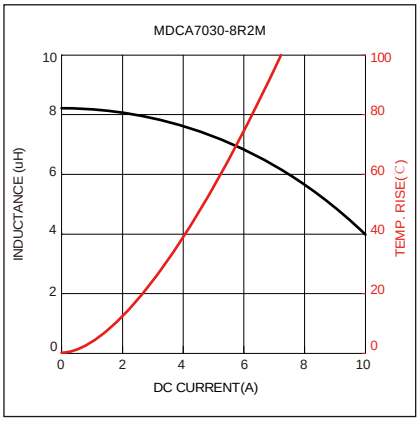

MDCA7030-2R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
2.5
2.0
1.5
1.0
0.5
0.0
100
80
60
40
20
0
0
3
6
9
12
15

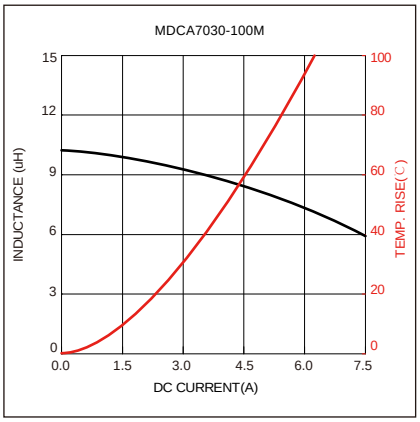

MDCA7030-3R3M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4.0
3.2
2.4
1.6
0.8
0.0
100
80
60
40
20
0
0
3
6
9
12
15

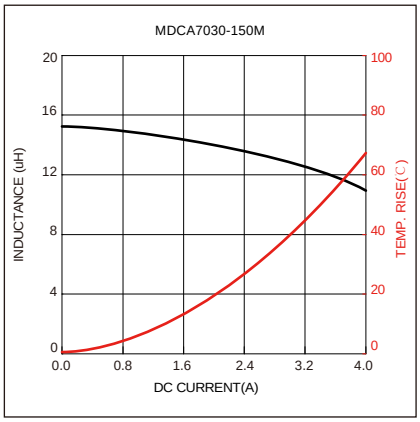

MDCA7030-4R7M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
6.0
4.8
3.6
2.4
1.2
0.0
100
80
60
40
20
0
0
2
4
6
8
10

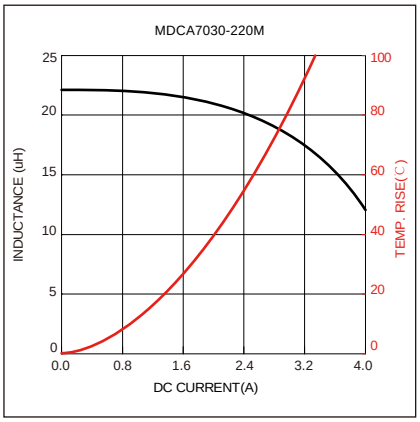

MDCA7030-5R6M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
7.0
5.6
4.2
2.8
1.4
0.0
100
80
60
40
20
0
0
2
4
6
8
10


MDCA7030-6R8M
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
2
4
6
8
10


MDCA7030-8R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
10
8
6
4
2
0
100
80
60
40
20
0
0
2
4
6
8
10


MDCA7030-100M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
15
12
9
6
3
0
100
80
60
40
20
0
0.0
1.5
3.0
4.5
6.0
7.5


MDCA7030-150M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
20
16
12
8
4
0
100
80
60
40
20
0
0.0
0.8
1.6
2.4
3.2
4.0


MDCA7030-220M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
25
20
15
10
5
0
100
80
60
40
20
0
0.0
0.8
1.6
2.4
3.2
4.0