# MDCA Series

SMD Power Indutor

Size 3012

**FEATUERS**

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**APPLICATION**

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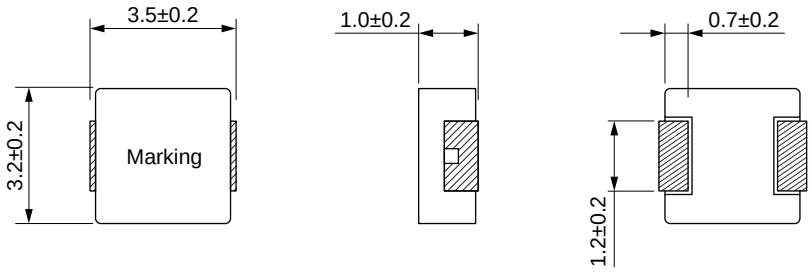
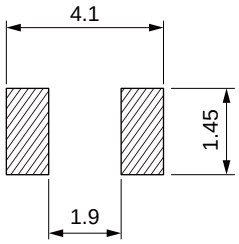
## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

| Part No | Inductance @ 100KHz/1V | Tolerance | Temperature Rise Current Typ. | Current Typ. | DC Resistance Typ. | DC Resistance Max. |
|---|---|---|---|---|---|---|
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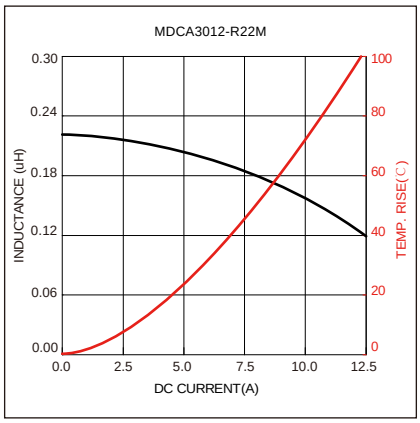
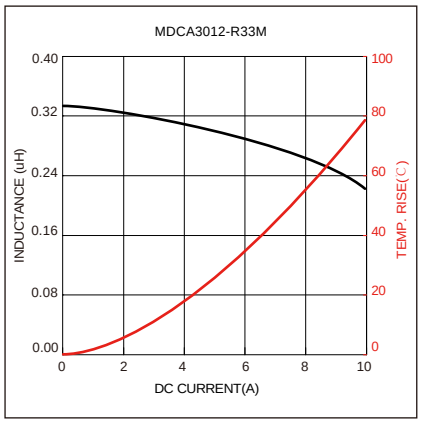
4546 BATES DRIVE, YORBLINDA CA 92886 USA
714-325-4789 Contact@kohergroup.com

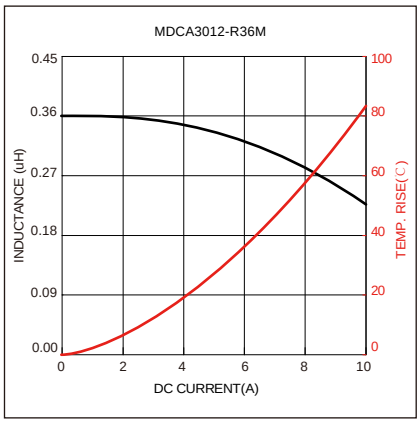
| Part No | Inductance @ 100KHz/1V | Tolerance | Temperature Rise Current Typ. | Current Typ. | DC Resistance Typ. | DC Resistance Max. |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |

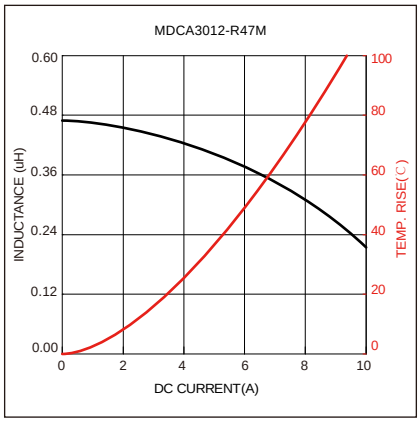
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

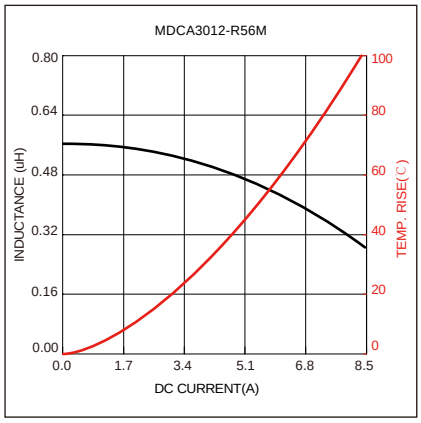
## Typical Electrical Characteristics:

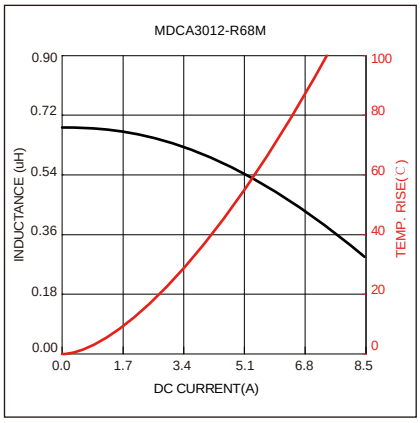


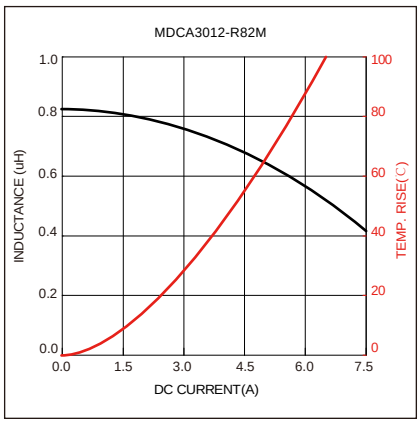



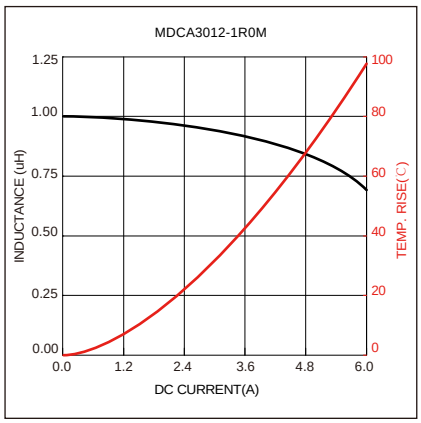



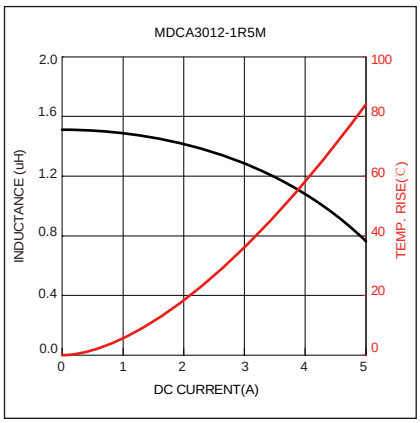



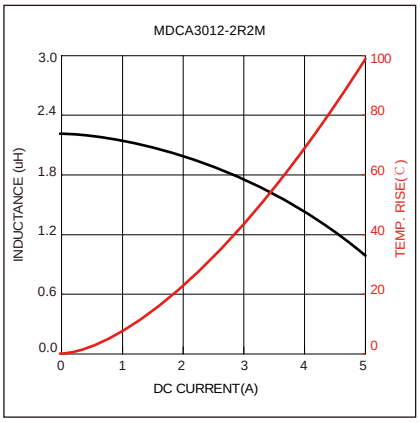



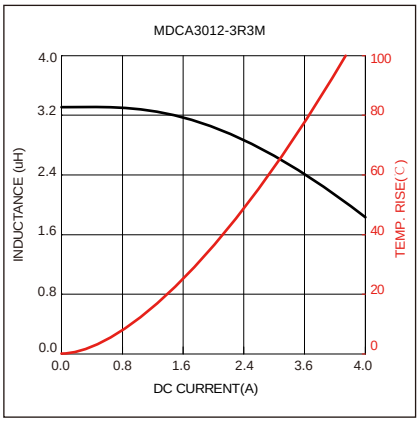



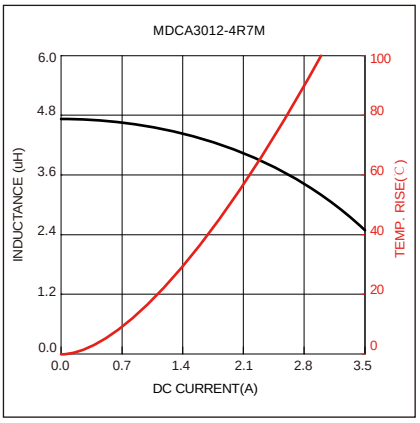



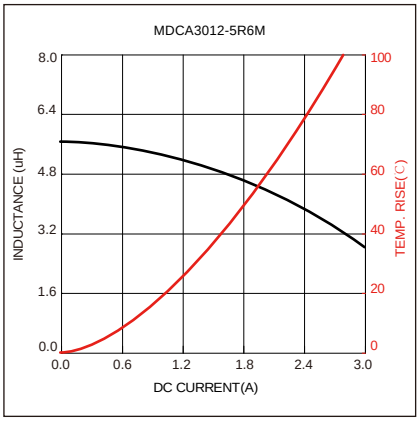



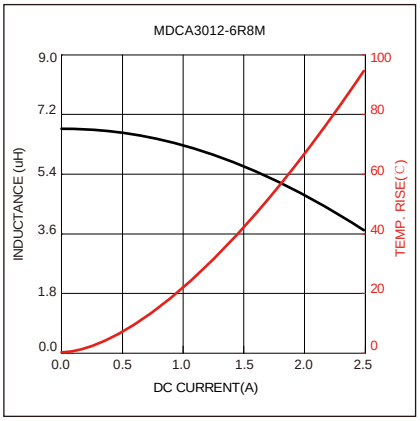



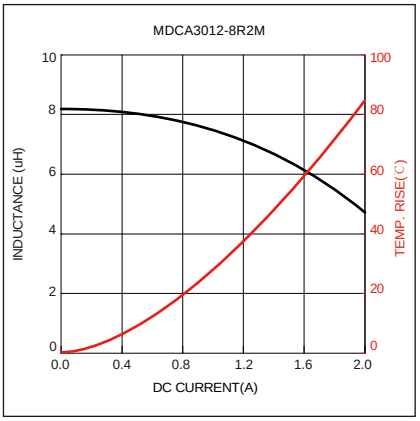

MDCA3012-2R2M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
3.0
2.4
1.8
1.2
0.6
0.0
100
80
60
40
20
0
0
1
2
3
4
5

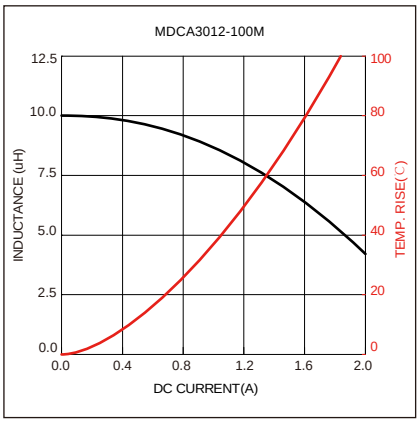

MDCA3012-3R3M
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
4.0
3.2
2.4
1.6
0.8
0.0
100
80
60
40
20
0
0.0
0.8
1.6
2.4
3.6
4.0


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