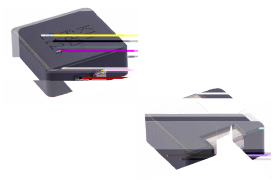
MDCA Series

SMD Power Inductor

Size 1350



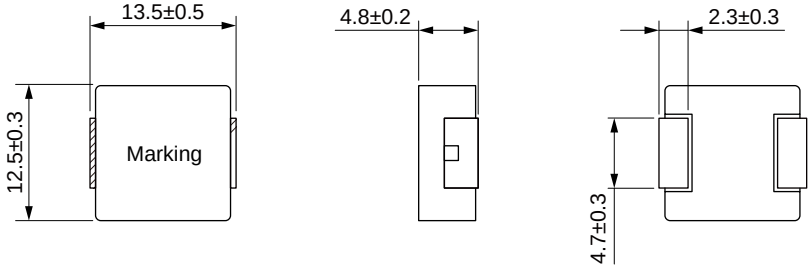
FEATURES

- Shielded construc on.
- Capable of corresponding high frequency.
- Low loss realized with low DCR.
- High performance (Isat) realized by Carbonyl Powder.
- Ultra low buzz noise, due to composite construc on.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Opera ng temperature: -55 to +125 °C(including self-temperature rise)
- Quan ty:500pcs

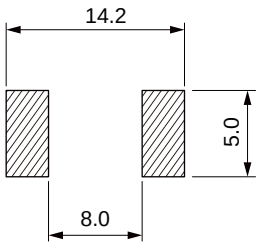
APPLICATION

- Headlamps, tail lamps and interior ligh ng
- HVAC
- Doors, window li and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and naviga on

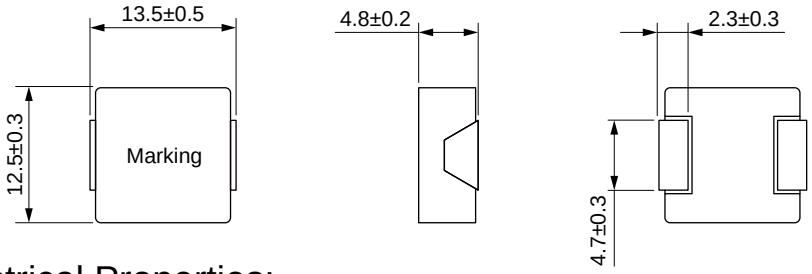
Dimensions: [mm] L＞1.5μH



Land Pattern: [mm]



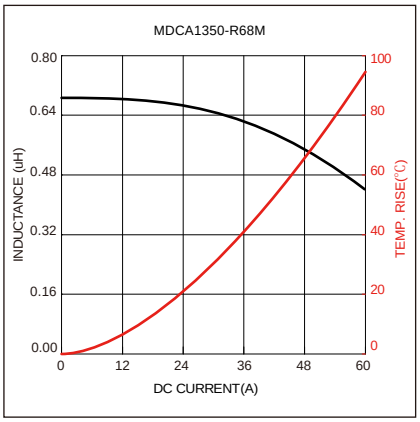
Dimensions: [mm] L≤1.5μH

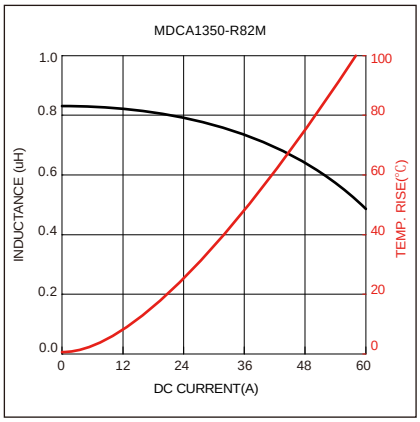


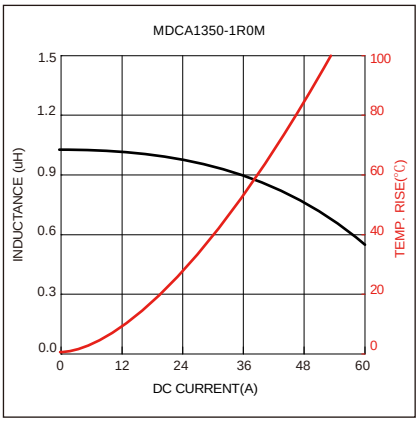
Electrical Properties:

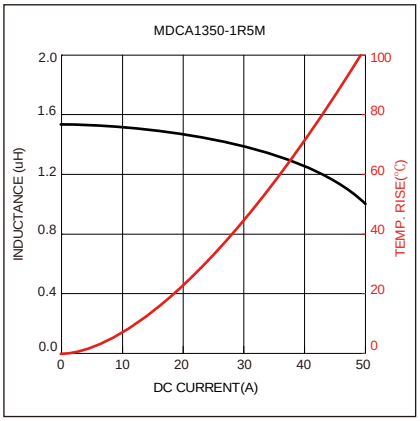
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDCA1350-R20M	0.20	±20%	52.0	110	0.45	0.55
MDCA1350-R22M	0.22	±20%	52.0	110	0.50	0.70
MDCA1350-R33M	0.33	±20%	42.0	80.0	0.70	0.90
MDCA1350-R36M	0.36	±20%	42.0	75.0	0.75	0.95
MDCA1350-R47M	0.47	±20%	38.0	65.0	0.86	1.10

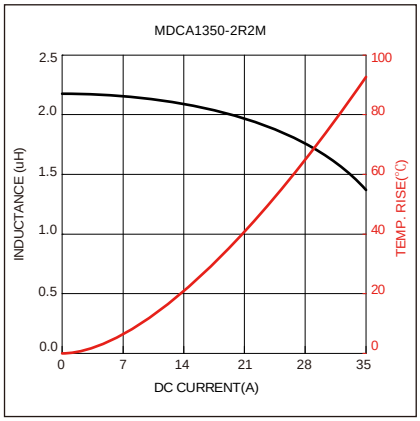
Tolerance

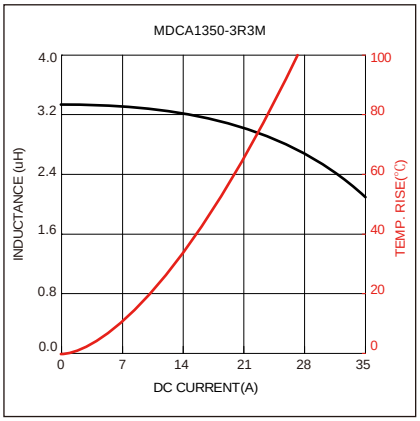

MDCA1350-R68M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0.80
0.64
0.48
0.32
0.16
0.00
100
80
60
40
20
0
0
12
24
36
48
60

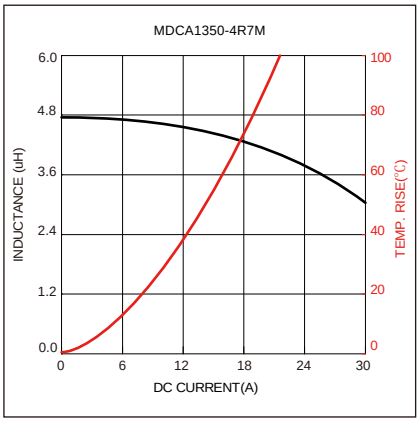

MDCA1350-R82M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
1.0
0.8
0.6
0.4
0.2
0.0
100
80
60
40
20
0
0
12
24
36
48
60

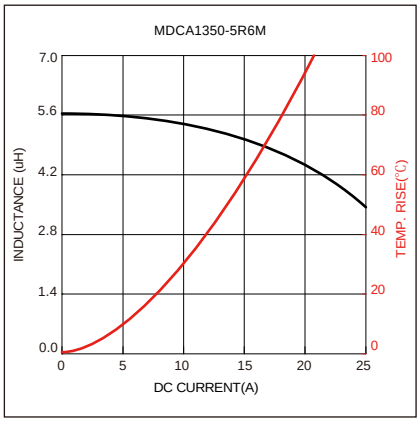

MDCA1350-1R0M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
1.5
1.2
0.9
0.6
0.3
0.0
100
80
60
40
20
0
0
12
24
36
48
60

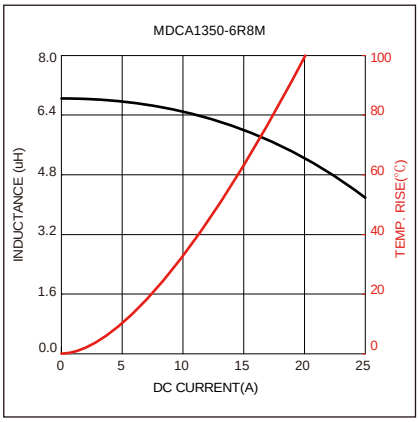

MDCA1350-1R5M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
2.0
1.6
1.2
0.8
0.4
0.0
100
80
60
40
20
0
0
10
20
30
40
50

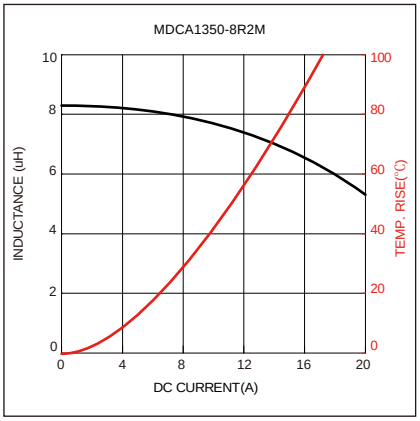

MDCA1350-2R2M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
2.5
2.0
1.5
1.0
0.5
0.0
100
80
60
40
20
0
0
7
14
21
28
35

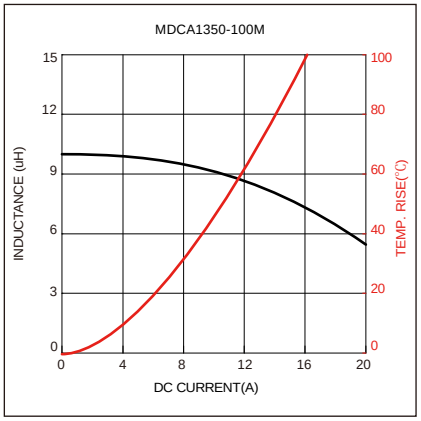

MDCA1350-3R3M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
4.0
3.2
2.4
1.6
0.8
0.0
100
80
60
40
20
0
0
7
14
21
28
35

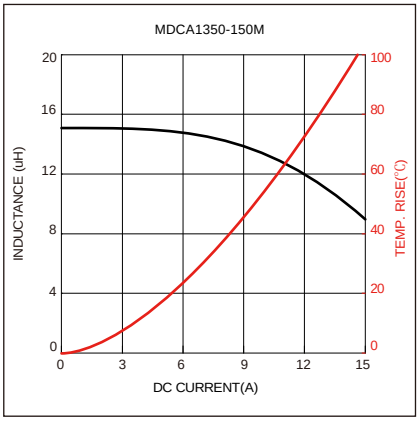

MDCA1350-4R7M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
6.0
4.8
3.6
2.4
1.2
0.0
100
80
60
40
20
0
0
6
12
18
24
30


MDCA1350-5R6M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
7.0
5.6
4.2
2.8
1.4
0.0
100
80
60
40
20
0
0
5
10
15
20
25


MDCA1350-6R8M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
8.0
6.4
4.8
3.2
1.6
0.0
100
80
60
40
20
0
0
5
10
15
20
25


MDCA1350-8R2M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
10
8
6
4
2
0
100
80
60
40
20
0
0
4
8
12
16
20


MDCA1350-100M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
15
12
9
6
3
0
100
80
60
40
20
0
0
4
8
12
16
20


MDCA1350-150M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
20
16
12
8
4
0
100
80
60
40
20
0
0
3
6
9
12
15