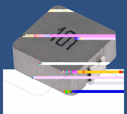
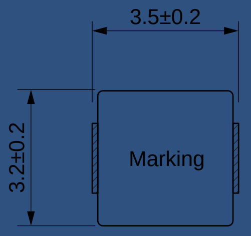
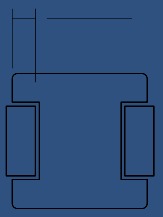
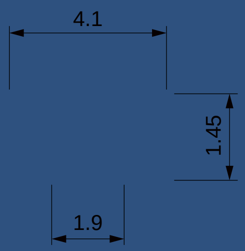


APPLICATION

- Note PC power system， incl. IMVP-6
- 5 / к5 / Ŏ2yǾŜǋúŜǋ







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)
MDCA3012-R22M	0.22	±20%	cϕp	10.0	14.0	17.0
MDCA3012-R33M	0.33	±20%	6.2	9.2	16.0	20.0
MDCA3012-R36M	0.36	±20%	6.0	уϕp	муϕp	23.0
MDCA3012-R47M	0.47	±20%	pϕл	7.2	нpϕл	30.0
a 5 / ! олмнπwpc a	лϕpc	±20%	пϕp	6.6	31.0	36.0
MDCA3012-R68M	0.68	±20%	4.0	6.1	34.0	40.0
MDCA3012-R82M	0.82	±20%	оϕp	pϕу	41.0	48.0
MDCA3012-1R0M	1.00	±20%	3.3	pϕp	pлϕл	60.0
a 5 / ! олмнπмwp a	мϕpл	±20%	3.0	4.0	71.0	уpϕл
MDCA3012-2R2M	2.20	±20%	2.7	3.4	98.0	ммp
MDCA3012-3R3M	3.30	±20%	2.0	3.1	191	210
MDCA3012-4R7M	4.70	±20%	1.6	2.8	266	293
a 5 / ! олмнπpwc a	pϕcл	±20%	мϕp	2.2	310	360
MDCA3012-6R8M	6.80	±20%	1.4	2.0	360	400

A0

KOHicPeProperties:5 0 -Td6661.026]17p19(aeQns:[mm]C)T53.38615 4eW842 490.5107]L 37LandPattern:[mm]C)o scn94 0.082 scn/o scn

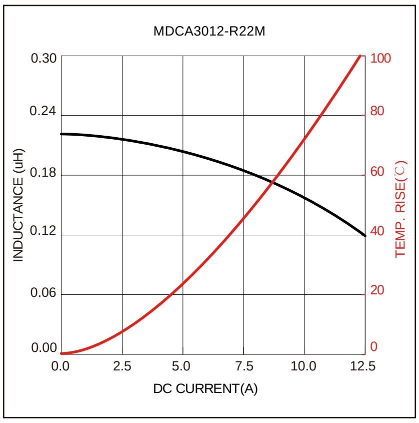
sQ̌ĂÁIPÞE

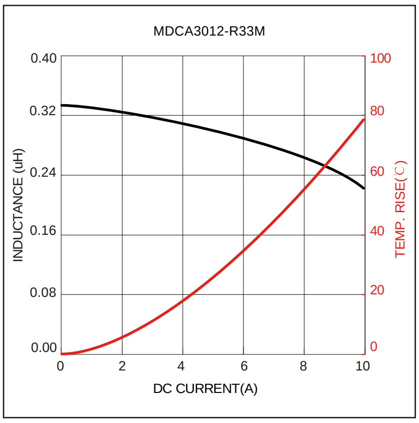
High reliability.

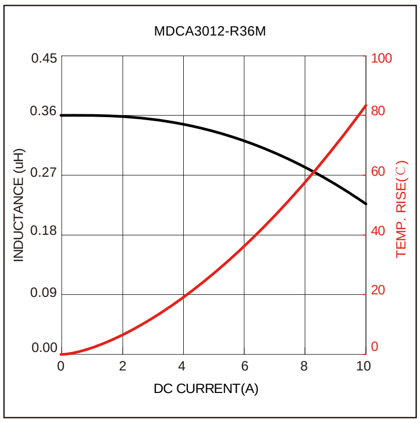
Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDCA3012-8R2M	8.20	±20%	1.2	1.7	420	463
MDCA3012-100M	10.0	±20%	1.0	1.4	498	ppл

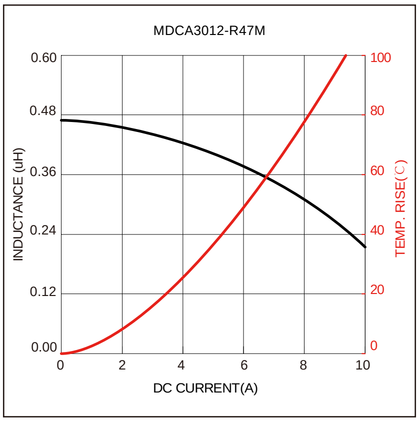
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

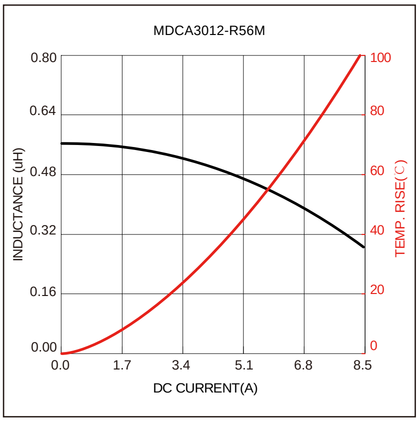
Typical Electrical Characteristics:

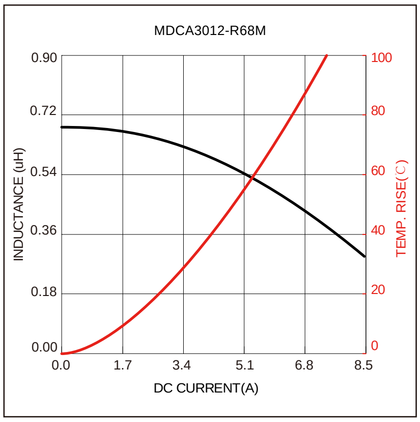


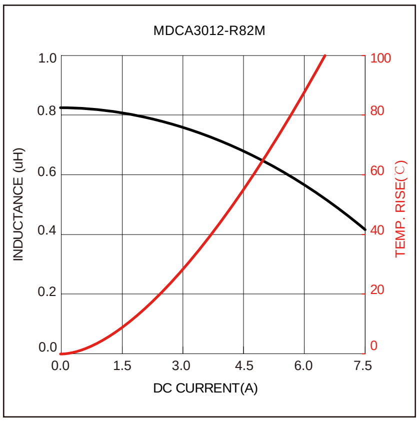


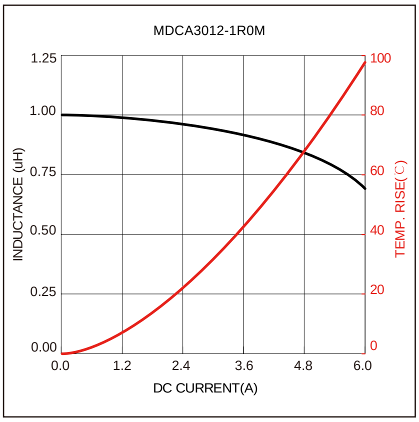


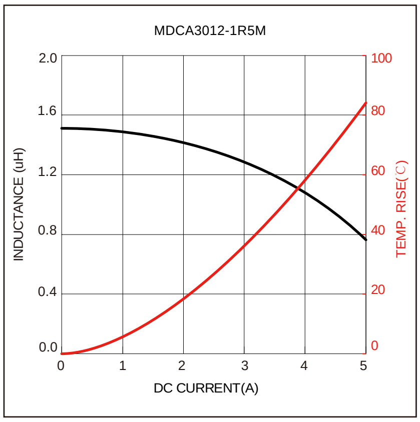


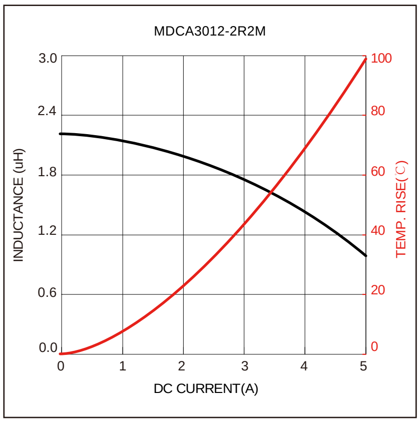


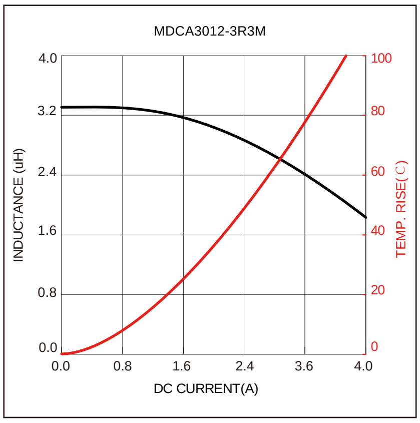


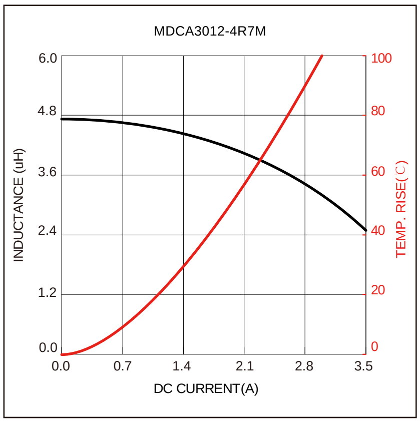


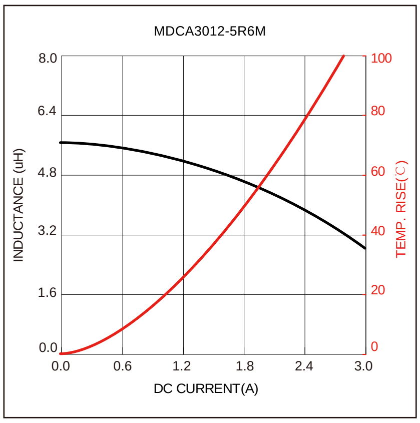


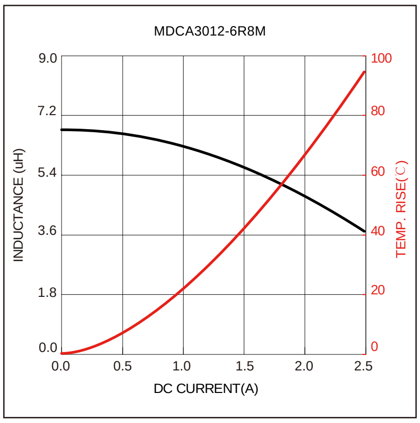


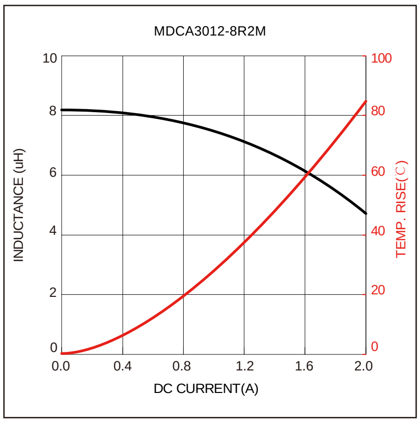

MDCA3012-2R2M
3.0
2.4
1.8
1.2
0.6
0.0
INDUCTANCE (uH)
100
80
60
40
20
0
TEMP. RISE(℃)
0
1
2
3
4
5
DC CURRENT(A)

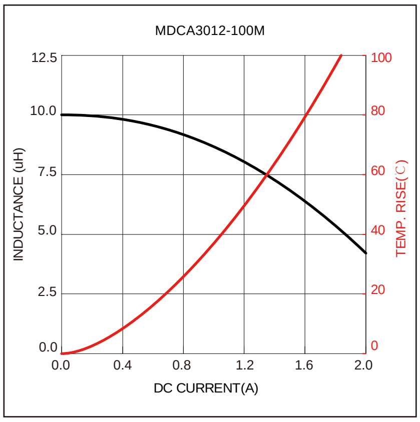

MDCA3012-3R3M
4.0
3.2
2.4
1.6
0.8
0.0
INDUCTANCE (uH)
100
80
60
40
20
0
TEMP. RISE(℃)
0.0
0.8
1.6
2.4
3.6
4.0
DC CURRENT(A)


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


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


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


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


MDCA3012-100M
12.5
10.0
7.5
5.0
2.5
0.0
INDUCTANCE (uH)
100
80
60
40
20
0
TEMP. RISE(℃)
0.0
0.4
0.8
1.2
1.6
2.0
DC CURRENT(A)