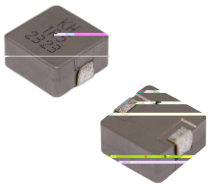
SMD Low Profile High Current Molded Inductor
Size 1365



- Noise filter for various drive circuitry requiring high temp. opera on and peak current handing capability.
- Boost-Converter
- Buck-Converter B τ r

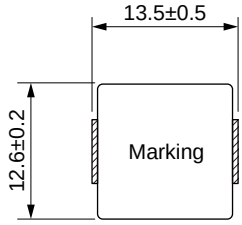
Ultra low buzz noise, due to composite construc on.

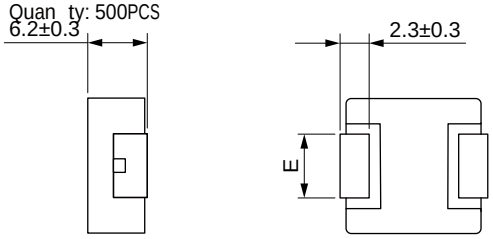
AEC-Q200 qualified

Opera ng temperature: -55 to +155 °C(including self-temperature rise)

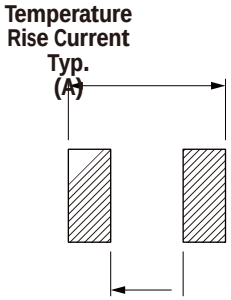
Quan ty: 500PCS

Dimensions: [mm]





Land Pattern: [mm]

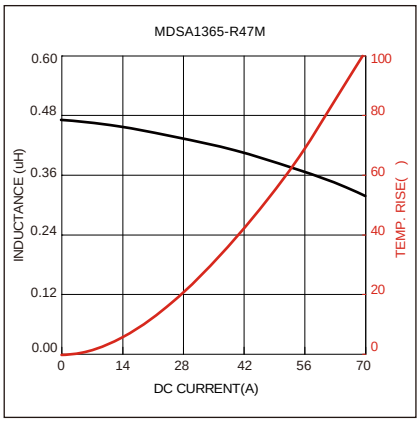


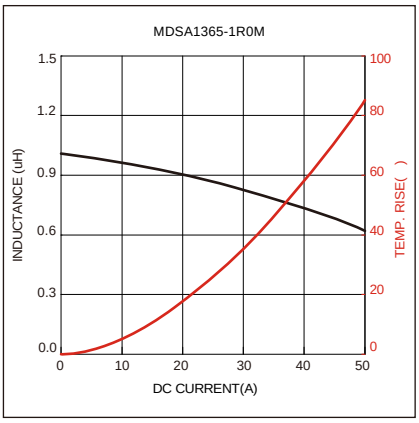
Electrical Properties:

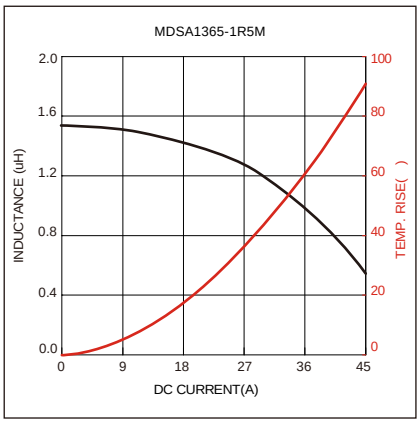
Part No	Inductance @100KHz/1V (µH)	Tolerance		Temperature Rise Current Max. (A)	Satura on Current Typ. (A)	Satura on Current Max. (A)	DC Resistance Typ.		E (mm)
MDSA1365-R47M	0.47					55.7			4.7±0.3
MDSA1365-R68M					55.0	44.2			4.0±0.3
MDSA1365-1R0M					45.0	34.6	1.55		4.0±0.3
MDSA1365-1R5M	1.50			24.0	35.0		2.25		4.0±0.3
MDSA1365-2R2M					28.5		3.75		4.7±0.3
MDSA1365-3R3M							5.40		4.7±0.3
MDSA1365-4R7M	4.70			16.4	25.0				4.7±0.3
MDSA1365-5R6M	5.60			14.4			8.40		4.7±0.3
MDSA1365-6R8M				13.5					4.7±0.3
MDSA1365-8R2M						16.4			4.7±0.3
MDSA1365-100M						14.4			4.7±0.3
MDSA1365-150M	15.0				13.5				4.7±0.3

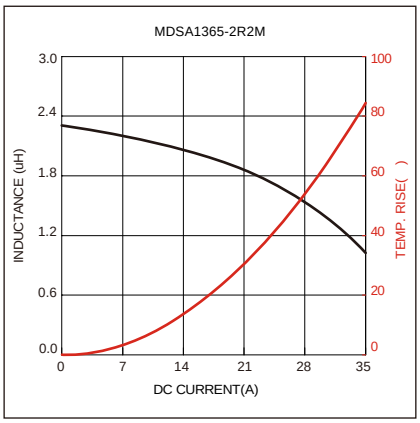
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

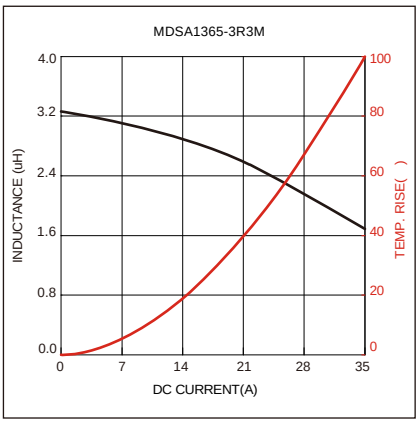
Typical Electrical Characteristics:

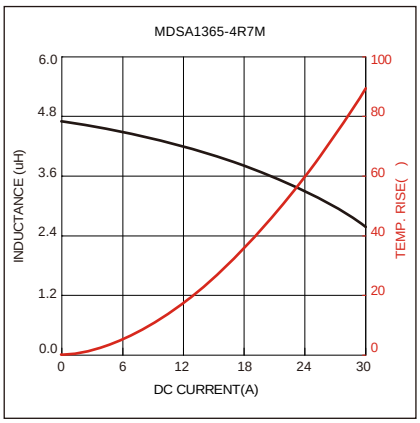


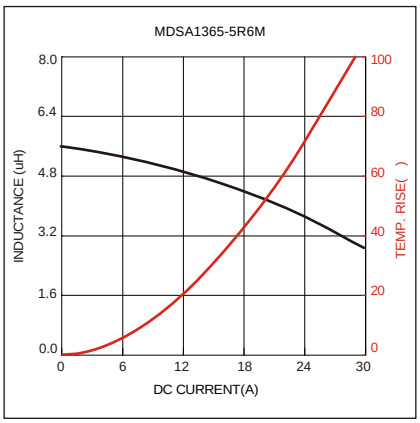


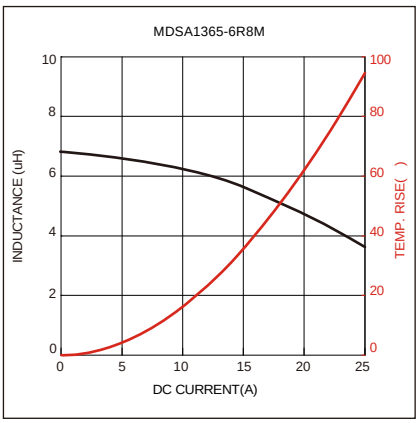


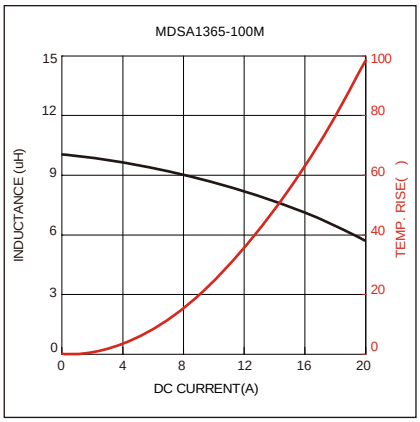


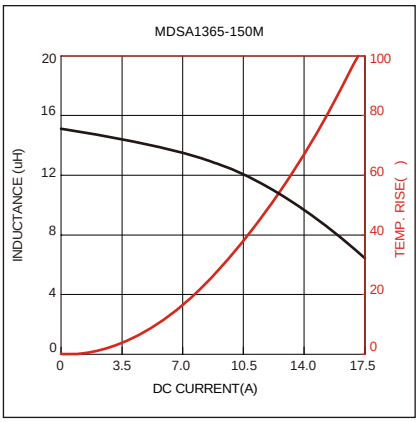


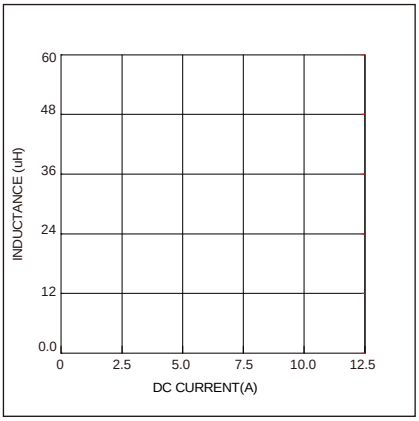




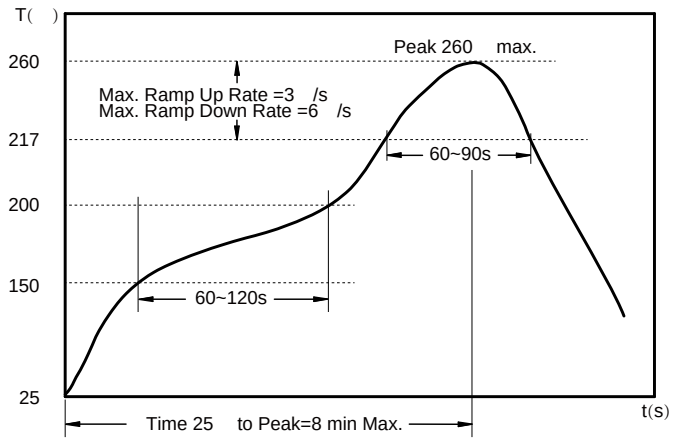



MDSA1365-100M
INDUCTANCE (uH)
TEMP. RISE( )
DC CURRENT(A)
15
12
9
6
3
0
100
80
60
40
20
0
0
4
8
12
16
20


MDSA1365-150M
INDUCTANCE (uH)
TEMP. RISE( )
DC CURRENT(A)
20
16
12
8
4
0
100
80
60
40
20
0
0
3.5
7.0
10.5
14.0
17.5


INDUCTANCE (uH)
DC CURRENT(A)
60
48
36
24
12
0.0
0
2.5
5.0
7.5
10.0
12.5

Soldering Reflow:



Preheat condition: 150 ~200 / 60~120 sec.

Allowed time above 217 : 60~90 sec.

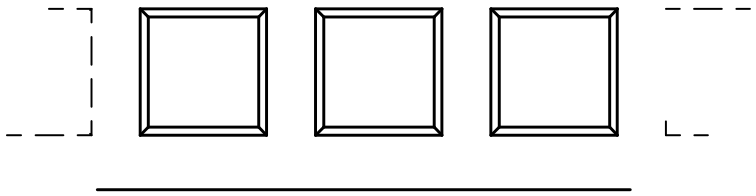
Max temperature: 260 .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

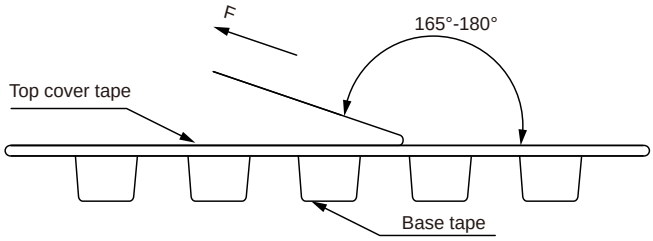
Packaging Information:

Tape Dimension



A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
13.1±0.1	14.0±0.1	1.5±0.1	4.0±0.1	16.0±0.1	24.0±0.3	6.8±0.1	1.75±0.1	0.50±0.05

Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	

Reel Dimension : [mm]



Packaging Quantity: