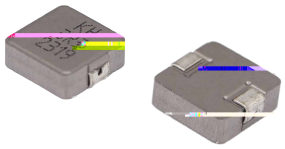
MDSA Series

SMD Low Profile High Current Molded Inductor

Size 1040



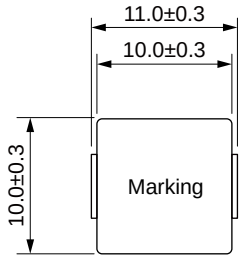
FEATURES

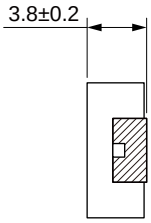
-
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
-
- 100% Lead(Pb)-Free and RoHS compliant.
-
-
-

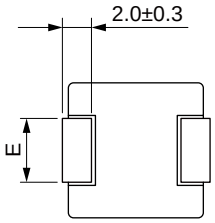
APPLICATION

-
-
-

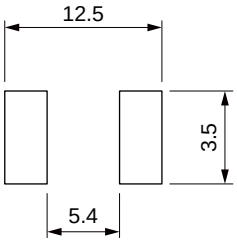
Dimensions: [mm]







Land Pattern: [mm]



Electrical Properties:

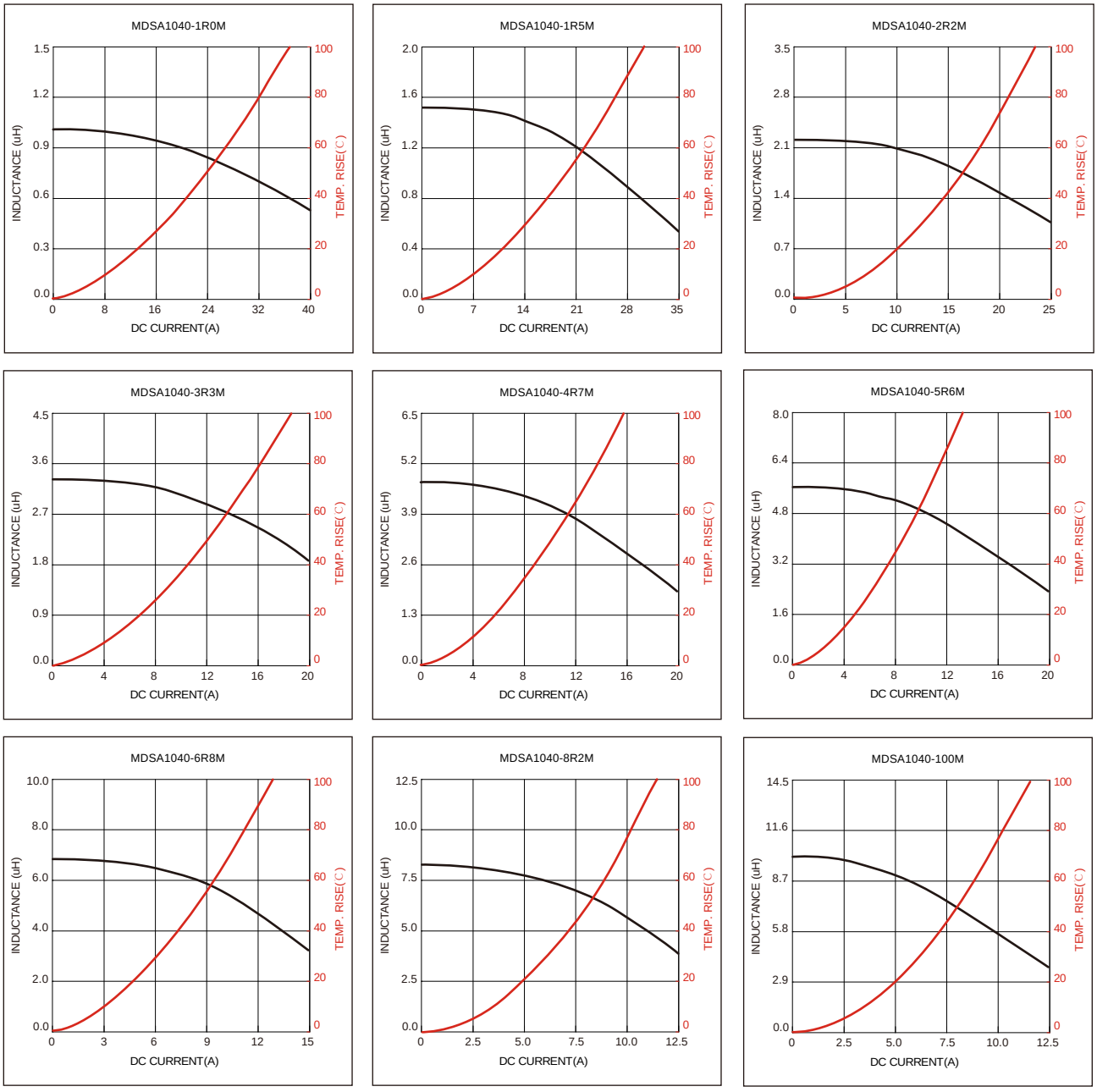
Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance Typ.	DC Resistance Max.	E
MDSA1040-1R0M	1.00	±20%	19.0	28.0	3.00		
		±20%	16.8		3.80	4.40	
MDSA1040-2R2M	2.20	±20%	14.4	19.2		7.00	3.0±0.3
MDSA1040-3R3M	3.30	±20%		16.8	10.7	12.0	3.0±0.3
MDSA1040-4R7M	4.70	±20%	8.40	14.6	16.0		3.0±0.3
		±20%	7.60		19.2	23.3	3.0±0.3
MDSA1040-6R8M	6.80	±20%	7.40	11.7	22.2		3.0±0.3
MDSA1040-8R2M	8.20	±20%	7.20	9.00		29.0	3.0±0.3
MDSA1040-100M	10.0	±20%	7.20	8.20		31.0	3.0±0.3
		±20%		6.70	42.0	46.0	3.0±0.3

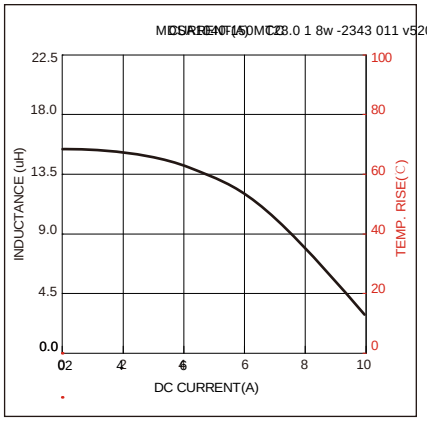
KOHER Electronic
4546 BATES DRIVE, YORBLINDA CA 92886 USA
714-325-4789 Contact@kohergroup.com

Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance Typ.	DC Resistance Max.	E
MDSA1040-220M	22.0	±20%	4.70			67.0	3.0±0.3
MDSA1040-330M	33.0	±20%	4.20			92.0	3.0±0.3
MDSA1040-470M	47.0	±20%	3.30	4.70	126	144	3.0±0.3
MDSA1040-680M	68.0	±20%	2.40	3.10	193	212	3.0±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

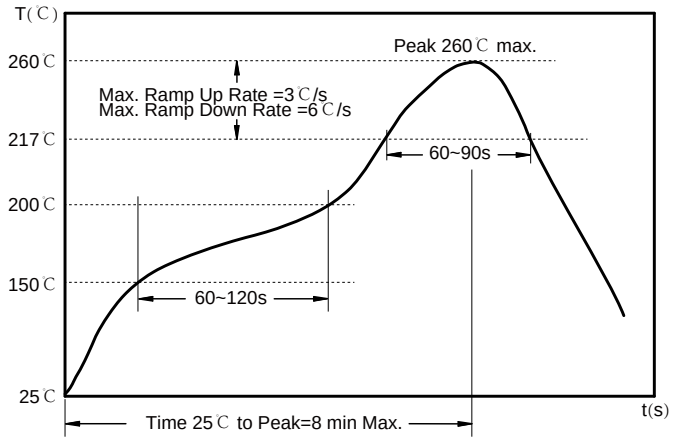
Typical Electrical Characteristics:





22.5
18.0
13.5
9.0
4.5
0.0
INDUCTANCE (uH)
100
80
60
40
20
0
TEMP. RISE(℃)
0
2
4
6
8
10
DC CURRENT(A)

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

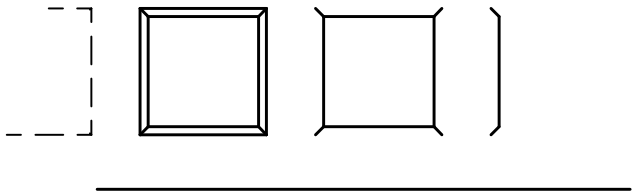
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

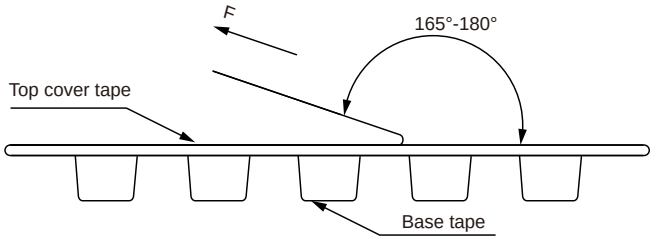
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
KBQ?/.2.	/.,2®.,/	//,4®.,/	/,3®.,/	2,.®.,/	/4,.®.,/	02,.®.,1	2,1®.,/	/,53®.,/	.,13®.,.3

Peel force of top cover tape:

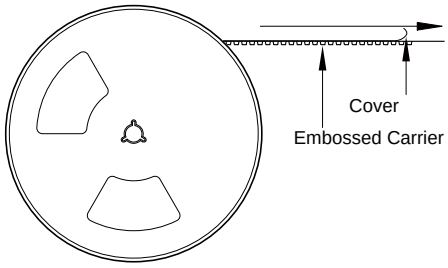


Rfc nccj dmpac md rmn amtcp r_nc qf_jj `c `cruccl .,/ rm /,1 L

Product Marking:

K_pigle	IF)Npglrgle Glbsar_lac'

Reel Dimension：[mm]



Packaging Quantity: