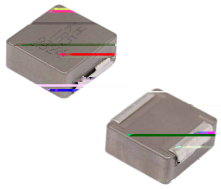
MDSA Series

SMD Low Profile High Current Molded Inductor
Size 1870



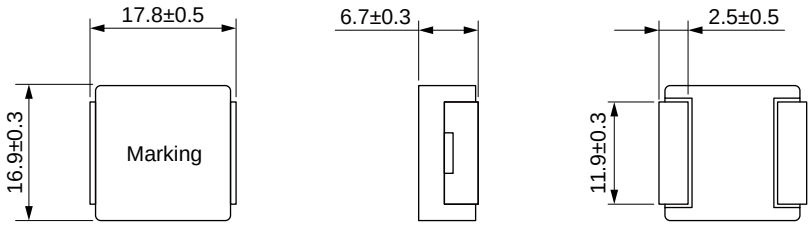
FEATURES

- S ł U t u
-
-
-
- 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: 200PCS

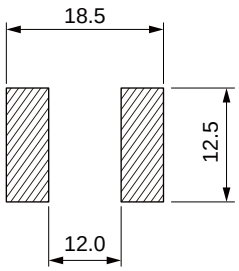
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



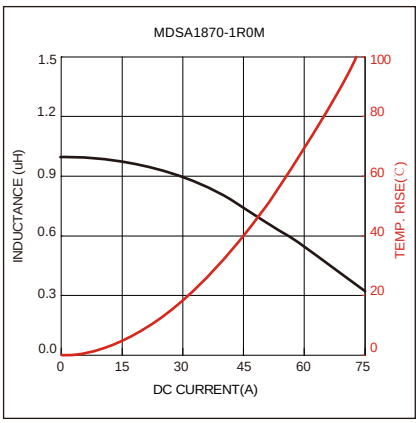
Electrical Properties:

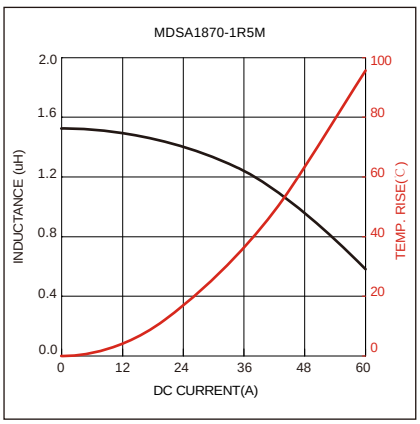
Part No		Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
					0.75	0.95
MDSA1870-R56M			56.0		0.85	
				50.0		1.35
					1.55	1.85
				35.0	1.85	2.25
					2.75	3.35
					3.75	4.55
				25.0		
						15.7

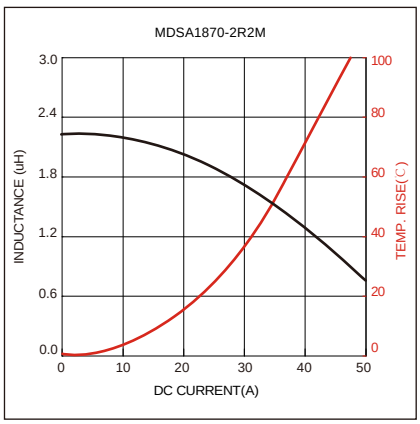
KOHER Electronics
F9, No. 4188, Huaning Rd, Minhang District, Shanghai
021-34753361 Contact@kohergroup.com

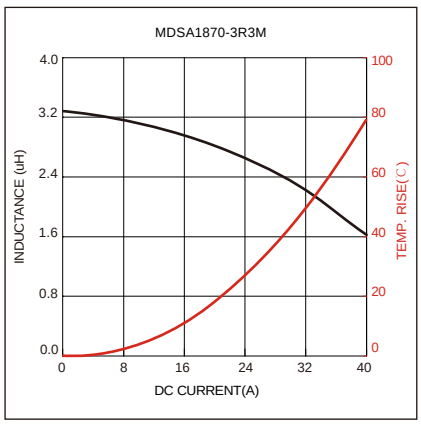
Saturation Current will cause L to drop approximately 0 44105 c026 Tw 0.654 0 Td(E()Tj/C00 1 Tf0 Tc 0 Tw 80A5Tj/TT0 1 Tf1.922 0 Td())Tp 0

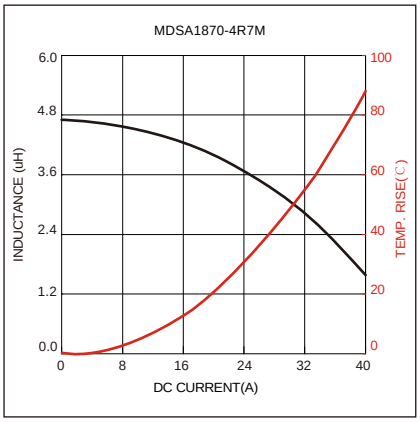
Typical Electrical Characteristics:

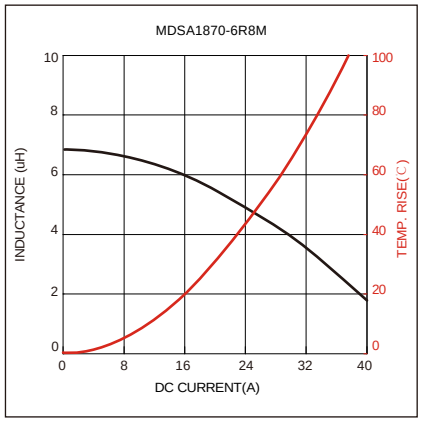


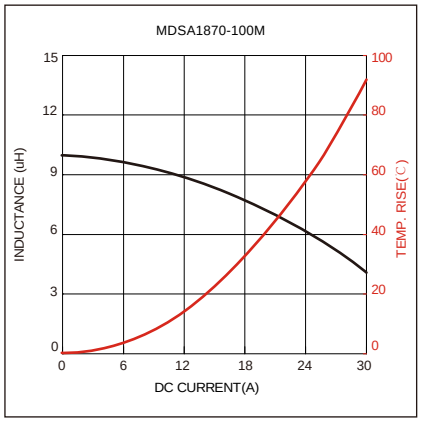


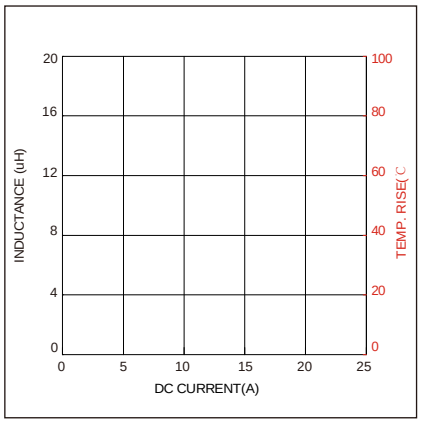




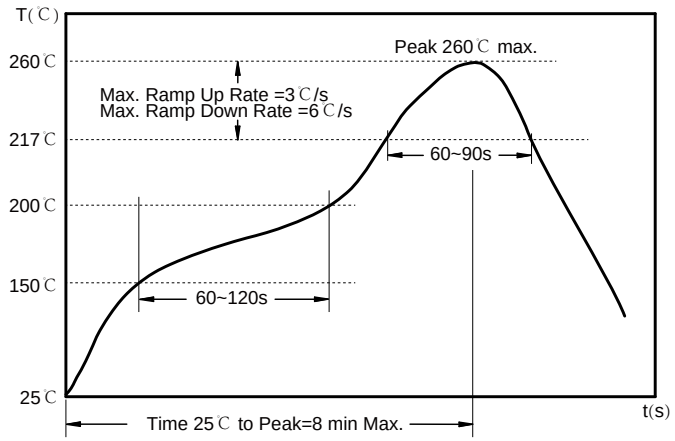







20
16
12
8
4
0
INDUCTANCE (uH)
100
80
60
40
20
0
TEMP. RISE(C
0
5
10
15
20
25
DC CURRENT(A)

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

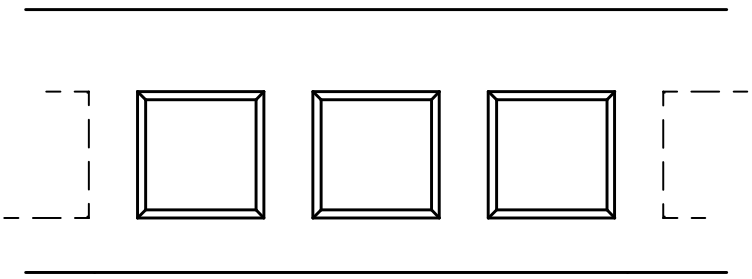
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

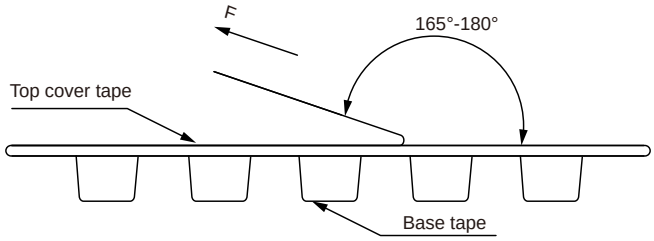
Packaging Information:

Tape Dimension:



A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
17.5±0.1	18.1±0.1	1.5±0.1	4.0±0.1	24.0±0.1	32.0±0.3	7.3±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	KH+Printing (Inductance+period)