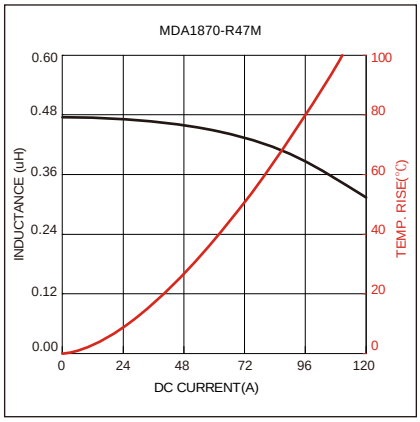
MDA Series
SMD Low Profile High Current Molded Inductor
Size 1870

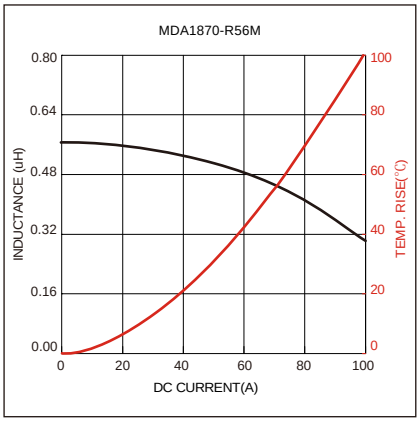
Electrical Properties:

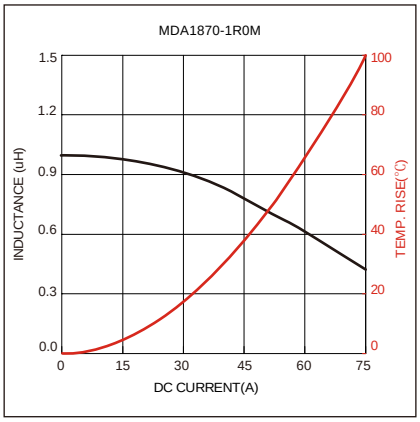
Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Current Typ. (A)	Current Max. (A)	DC Resistance Typ.	DC Resistance Max.
MDA1870-220M	22.0	±20%	13.5	11.5	13.5	11.5	20.5	24.0
MDA1870-330M	33.0	±20%	12.0	10.0	12.0	10.0	32.0	37.0
MDA1870-470M	47.0	±20%	9.5	8.0	9.5	8.0	40.0	47.0
MDA1870-680M	68.0	±20%	8.0	6.5	8.5	7.2	66.0	76.0
MDA1870-820M	82.0	±20%	6.5	5.7	8.0	6.5	69.0	83.0

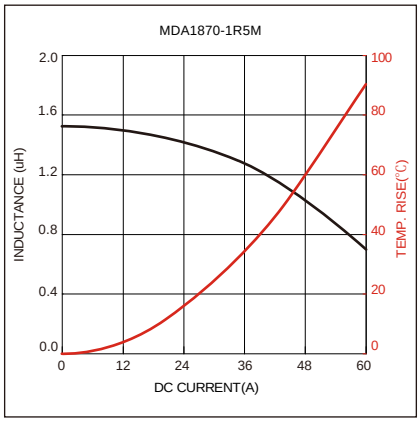
Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

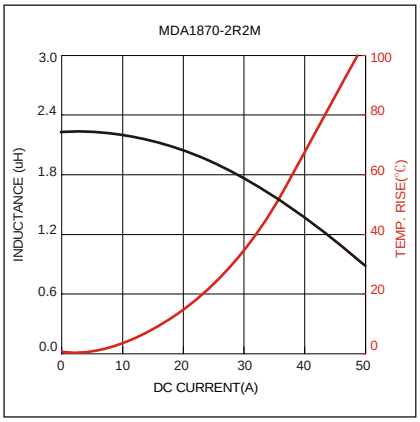
Typical Electrical Characteristics:

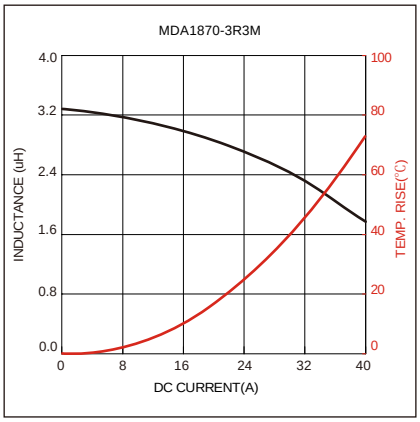


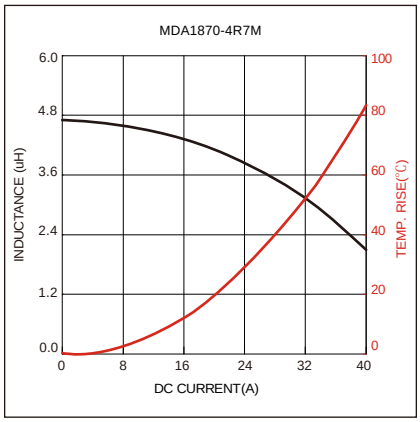


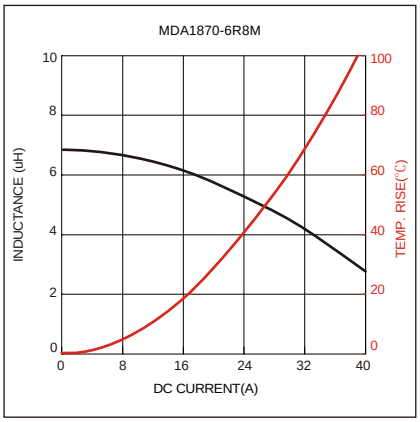


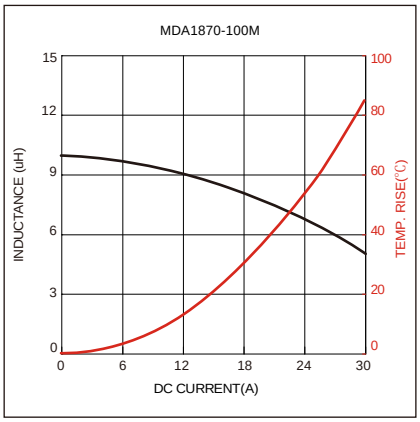


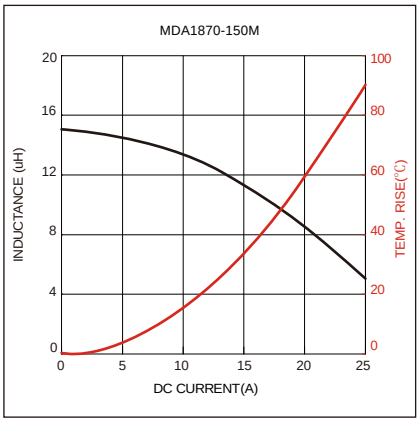


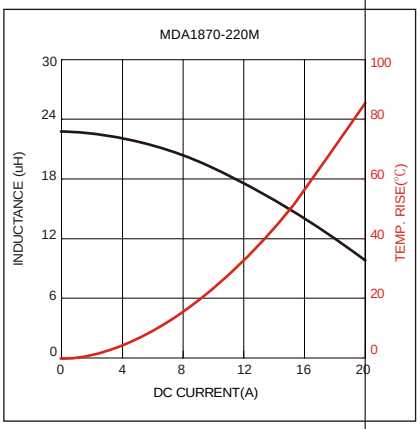


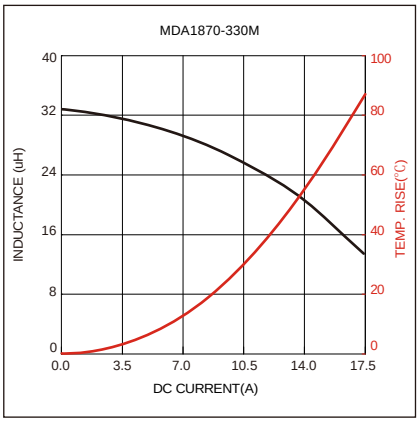


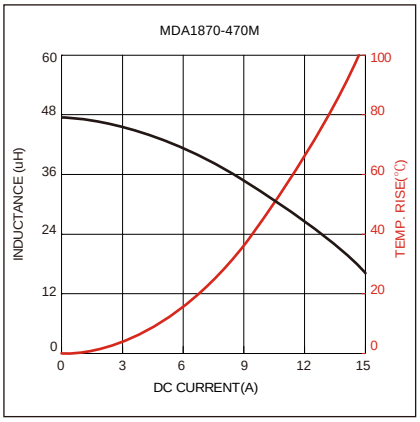


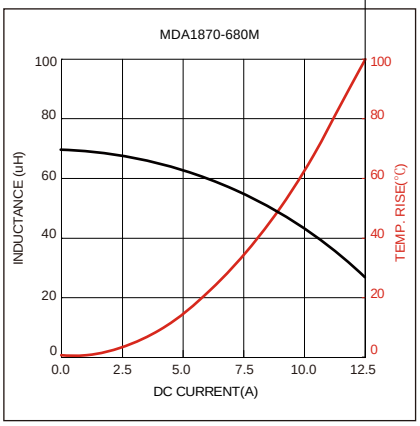


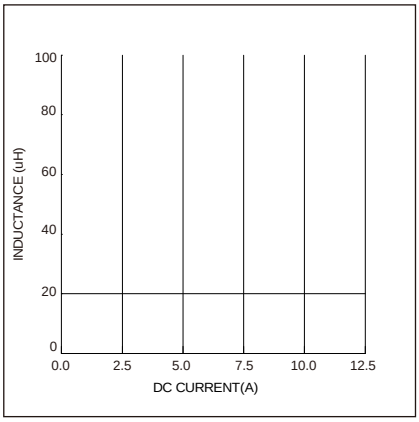

MDA1870-150M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 4 8 12 16 20
0 20 40 60 80 100
0 5 10 15 20 25


MDA1870-220M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 6 12 18 24 30
0 20 40 60 80 100
0 4 8 12 16 20

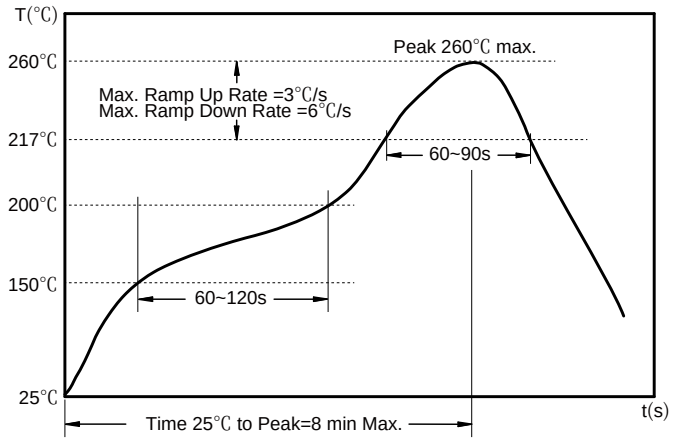

MDA1870-330M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 8 16 24 32 40
0 20 40 60 80 100
0.0 3.5 7.0 10.5 14.0 17.5


MDA1870-470M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 12 24 36 48 60
0 20 40 60 80 100
0 3 6 9 12 15


MDA1870-680M
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 20 40 60 80 100
0 20 40 60 80 100
0.0 2.5 5.0 7.5 10.0 12.5


INDUCTANCE (uH)
DC CURRENT(A)
0 20 40 60 80 100
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.

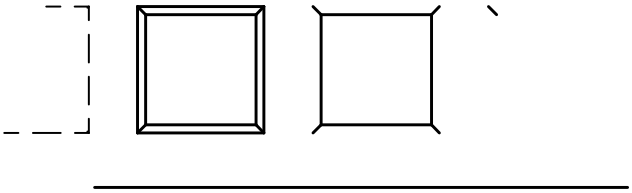
Max temperature: 260℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

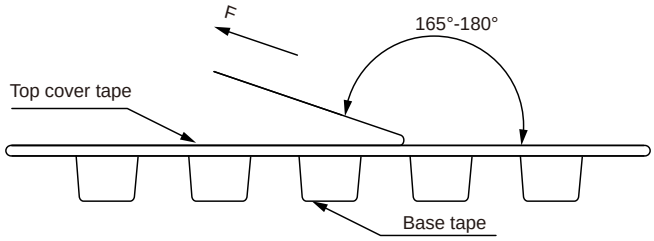
Packaging Information:

Tape Dimension：



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDA1870	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:

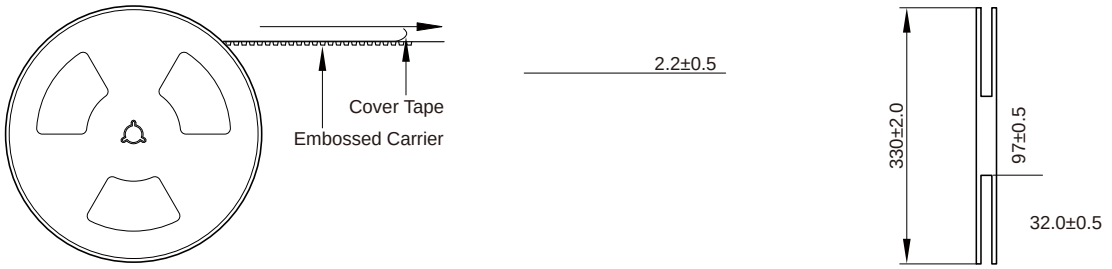


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	KH+Printing Inductance+period)

Reel Dimension：[mm]



Packaging Quantity:



200 Pcs/Reel

2 Reel /Inner box(400 Pcs)

2 Inner box/Carton box(800 Pcs)

Cautions and Warnings:

Storage Conditions：

-

Operation Instructions: