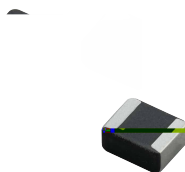


MDE Series

Molding Power Inductors

Size 252012



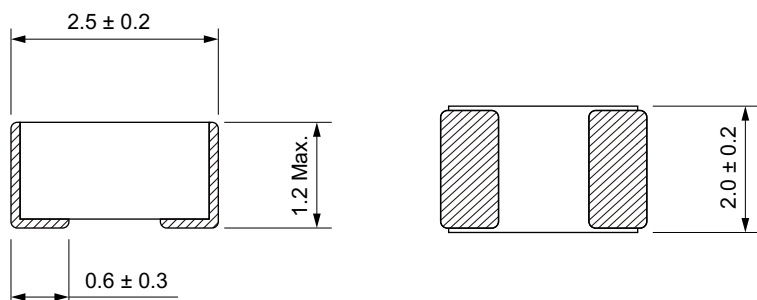
FEATURES

- High saturation current realized by material properties and structure design.
- Low DC resistance to achieve high conversion efficiency and lower temperature rising.
- Low Profile.
- Magnetically shielded structure to accomplish high resolution in EMC protection.
- Halogen free, Lead Free, RoHS Compliance.
- Operating temperature: -40 to +125 °C
- Quantity: 3000PCS

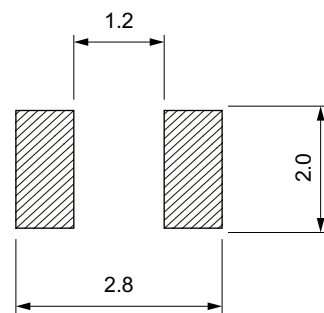
APPLICATION

- Generic in portable DC to DC converter line.
- Smart phone, PAD
- DC/DC converter
- Thin-type power supply module.

Dimensions: [mm]



Land Pattern: [mm]

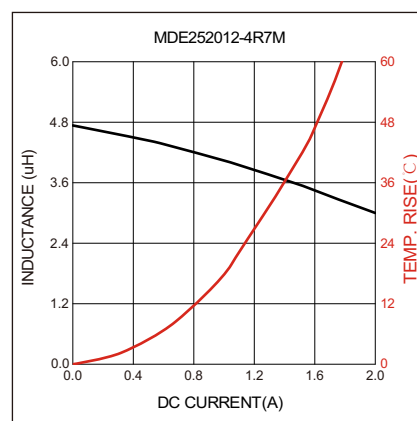
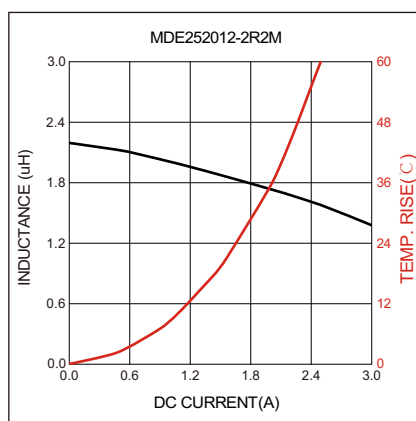
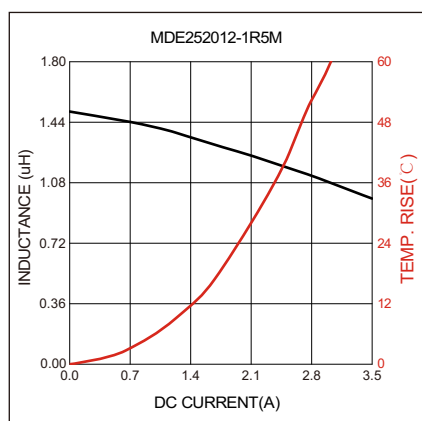
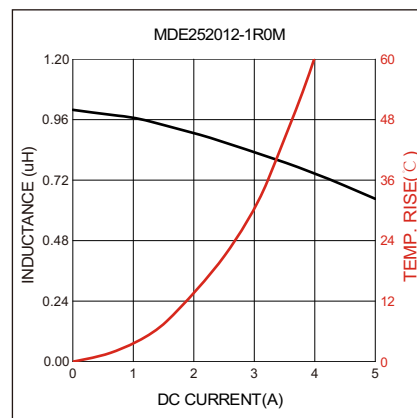
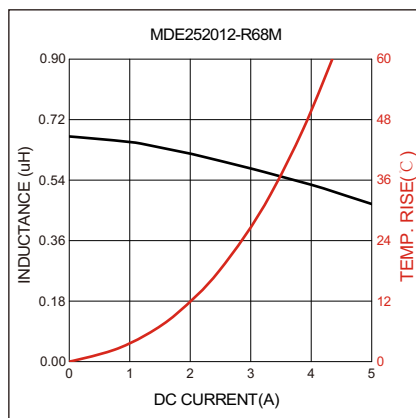
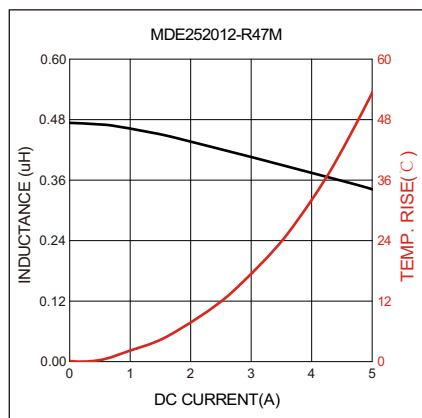


Electrical Properties:

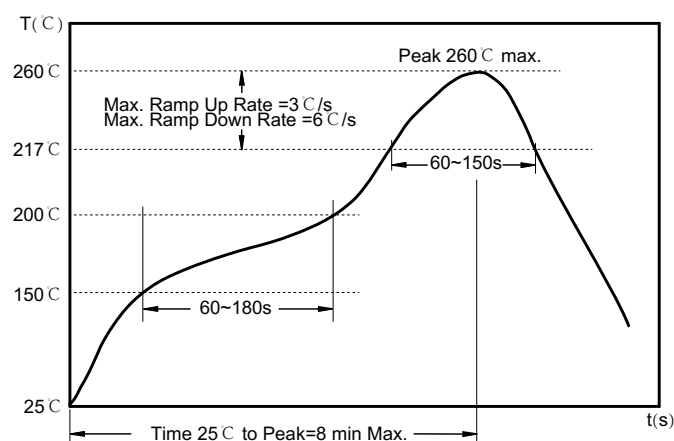
Part No	Inductance @ 1MHz/1V	Tolerance	DC Resistance Typ.	DC Resistance Max.	Current Typ.	Current Max.	Temperature Rise Current Typ.	Temperature Rise Current Max.
MDE252012-R47M	0.47	±20%	21	25	5.3	4.95	4.60	4.18
MDE252012-R68M	0.68	±20%	29	35	5.0	4.63	3.70	3.36
MDE252012-1R0M	1.00	±20%	41	49	4.4	4.04	3.50	3.18
MDE252012-1R5M	1.50	±20%	64	77	3.2	2.91	2.50	2.27
MDE252012-2R2M	2.20	±20%	85	98	3.0	2.73	2.27	2.06
MDE252012-4R7M	4.70	±20%	196	235	1.9	1.58	1.55	1.40

Temperature rising current will cause the coil temperature approximate $\Delta T40\text{ }^{\circ}\text{C}$
 Saturation current will cause to drop approximately 30 %

Typical Electrical Characteristics:



Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~180 sec.

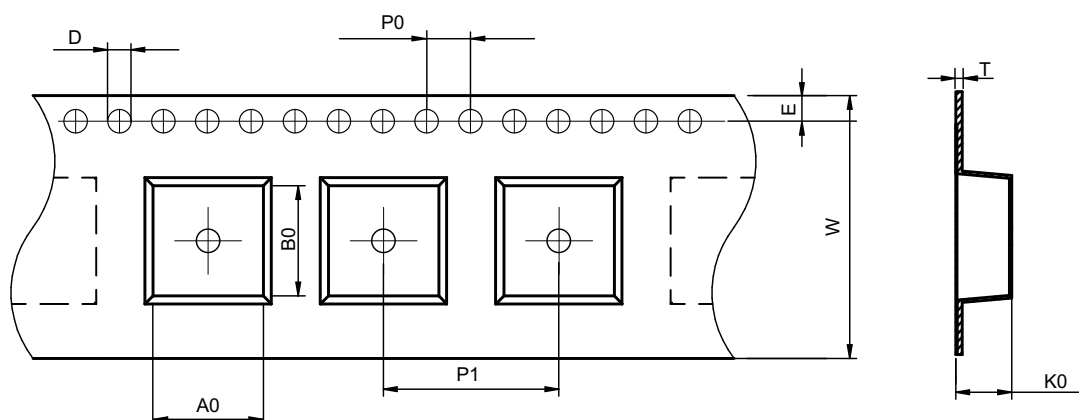
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C .

Time within 5 °C of actual Peak Temperature: 20-40 sec.

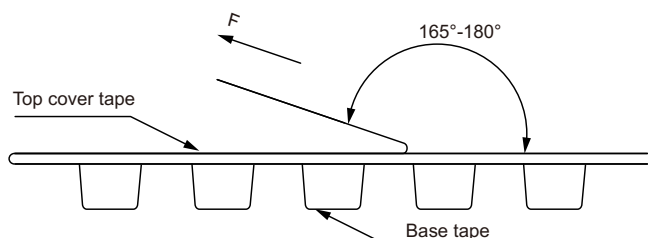
Packaging Information:

Tape Dimension:



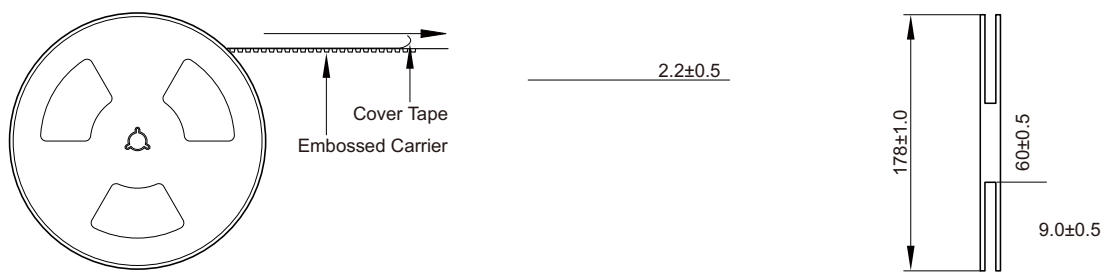
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDE252012	2.25±0.05	2.80±0.1	1.55±0.05	4.0±0.1	4.0±0.1	8.0±0.3	1.35±0.1	1.75±0.1	0.22±0.05

Peel force of top cover tape:

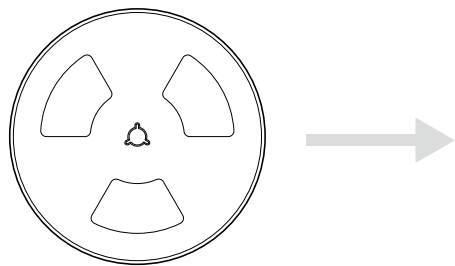


The peel force of top cover tape shall be between 0.1 to 1.3 N

Reel Dimension: [mm]



Packaging Quantity:



3000 Pcs/Reel

5 Reel /Inner box(15K Pcs)

8 Inner box/Carton box(120K Pcs)

Cautions and Warnings:

Storage Conditions:

-
-
-

Operation Instructions:

<