

A. FEATURES:

- Halogen Free & ROHS compliant.
- Low profile and low DCR
- Magnetically Shielded construction, low EMI
- Minimized acoustic noise and minimized leakage flux noise
- High current carrying capacity, Low core loss

B. APPLICATIONS:

- PC/TV, and server applications
- DC/DC converter for CPU in Notebook / PC /PDA
- VRM for server
- DC switching power supply circuit

C. PRODUCT IDENTIFICATION:

ET	1040	-	150	M
①	②		③	④

- ① Eastever Molded Power Inductor(ET)
- ② Product dimensions (1040:11.0X10.2X4.0 mm)
- ③ Inductance Value (150: 15uH)
- ④ Inductance Tolerance (M= $\pm 20\%$)

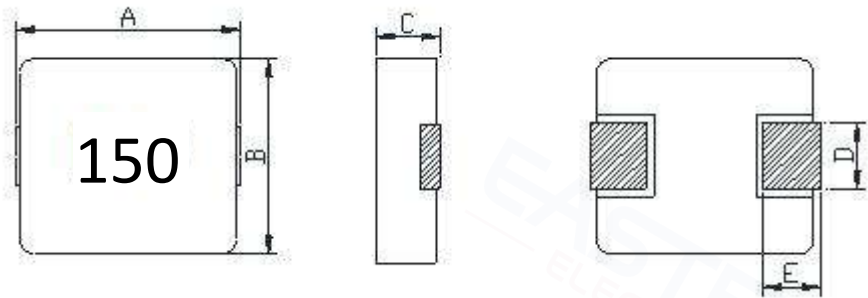
Molded Power Inductor

ET1040-150M

2025-05-29 Rev. 0

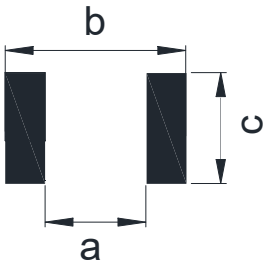


D. MECHANICAL(unit:mm)



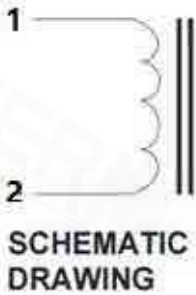
A	B	C	D	E
11.0±0.5	10.2±0.3	4.0 Max	3.0±0.3	2.0±0.5

E. RECOMMENDED LAND PATTERN (UNIT: mm)

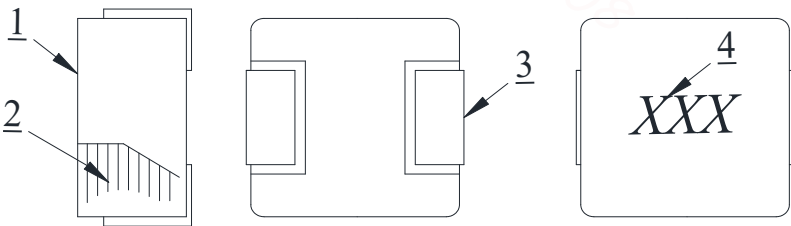


a	6.0 Ref
b	11.8 Ref
c	3.5 Ref

F. SCHEMATIC:



G. STRUCTURE



No.	PARTS	MATERIAL
①	CORE	Alloy powder
②	WIRE	Polyester imine enameled wire
③	BASE	Silver white material slice
④	INK	Black

Molded Power Inductor

ET1040-150M



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H. Electrical Specifications

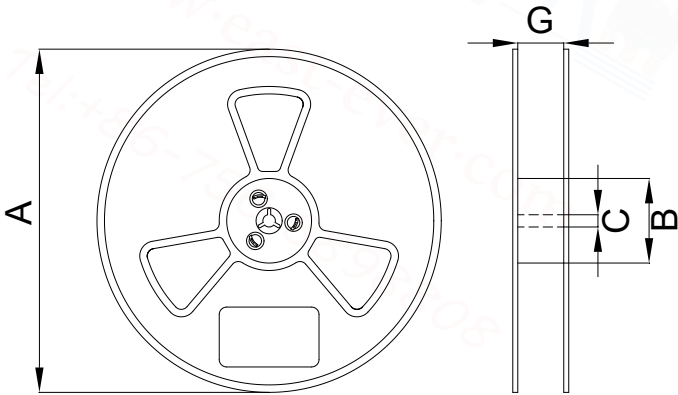
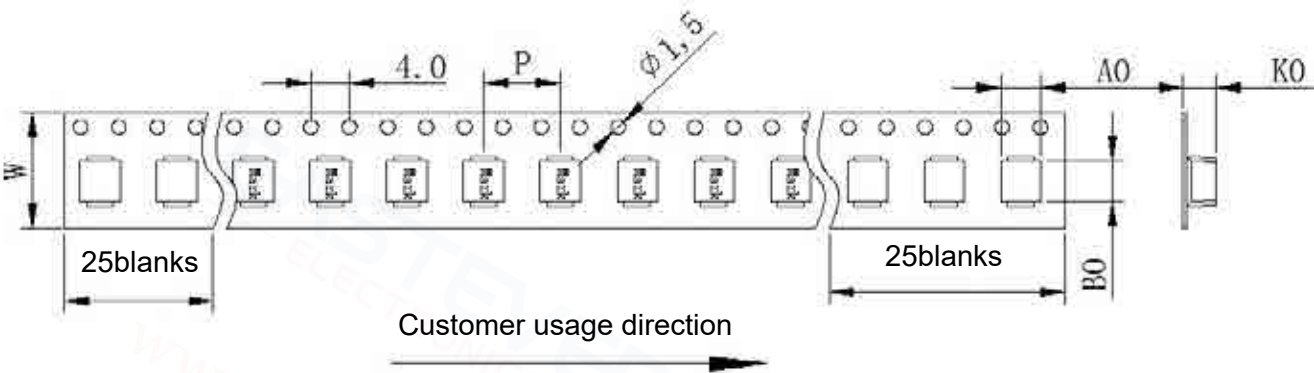
Part No.	Inductance (uH)	D.C.R. (mΩ)	Isat(A)	Irms (A)
	±20%	Max	Typical	Typical
ET1040-150M	15.0	75	6.0	8.0

- ※ All test data is referenced to 25°C ambient;
- ※ Test Condition:100KHz, 1.0Vrms;
- ※ Saturation current(last): DC current at which the inductance drops approximate 30% TYP from its value without current;
- ※ Temperature rise current(Irms): DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25°C ambient;
- ※ Operating Temperature Range: $-45^{\circ}C$ to $+125^{\circ}C$

I. DIMENSIONS FOR CARRIER TAPES (unit:mm)

I.1 Tape and Reel(mm):

ITEM	W	A0	B0	K0	P
DIM	24.00 ±0.30	10.6 ±0.20	11.8 ±0.20	4.20 ±0.15	16.00 ±0.10



REEL SPEC	13"
A	330.0
B	100.0
C	13.0
G	25.0

Carton dimensions and packing quantity:

Product Series	Quantity/Reel	Inner Carton Quantity	Out Carton Quantity
ET1040	1000pcs	2000pcs	(2000*3)=6000pcs



Balun Transformer | Coupler | Divider | Inductor | Choke | Bead | Air Coil | LAN Transformer

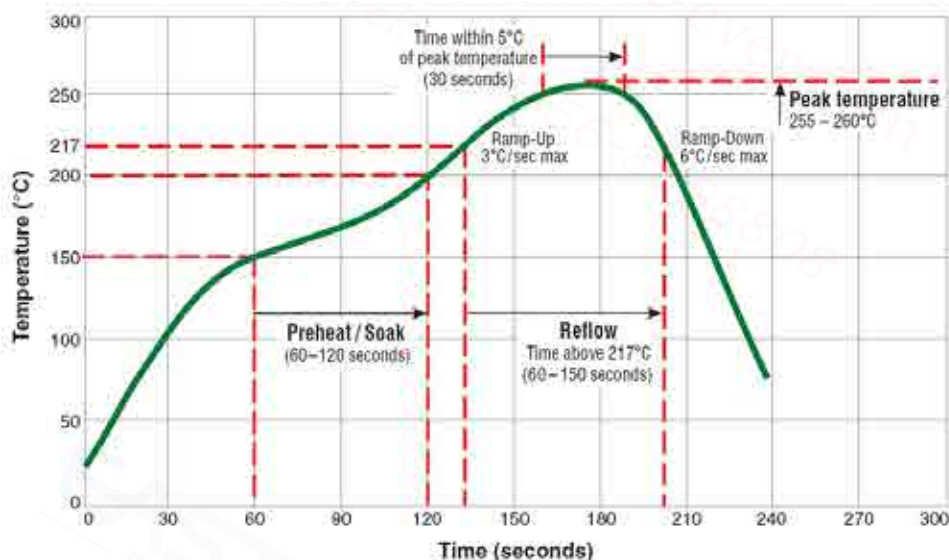
J . SOLDERING CONDITIONS

Applicable soldering process to the products is reflow.

J .1 Soldering Materials

- (1) Solder: Sn-3.0Ag-0.5Cu
- (2) Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine exceeding 0.2wt %). Do not use water-soluble flux.

J . 2 Reflow Soldering Profile



Reworking with electric soldering iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows.

- ① Temperature of soldering iron tip: 350°C;
- ② Soldering iron power output: ≤30W;
- ③ Diameter of soldering iron end: ≤1.0mm;
- ④ Soldering time: <3 s

