

10/100/1000 Base-T, Magnetic Coupled SMD LAN Transformer



ALANC10001

Request Samples



Check Inventory



4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Features

- Uniform transformer windings
- Fully automated production lines
- Meets IEEE 802.3u and 802.3ab standards
- Compatible with 10 BASE-T, 100 BASE-TX and 1000 BASE-T
- Symmetric Orientation
- Operating temperature range up to -40°C to +85°C
- RoHS Compliant
- 1CT:1CT Transformer

Applications

- Fast and gigabit Ethernet
- Servers, switches and routers
- IP cameras, surveillance, and phone
- Access points
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box

Electrical Specifications @25°C

Part Number	Insertion Loss (dB Max)		Return Loss	(dB Min)
	1-100 MHz	100-200MHz	1-40 MHz	40 -200MHz
ALANC10001-EEB3	0.8	1.2	25	14.5

Part Number	Inductance (uH Min)	Leakage Inductance (uH)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)		Hi Pot (VAC)	Weight (g)
	@100kHz, 0.1V, 0mA DC Bias	@ 100KHz, 0.1V	@ 100KHz, 0.2V	Pins 1-2	Pins 4-5	60 sec.	Per Piece
ALANC10001-EEB3	150	0.5	35	1.2	1.2	1500	0.228

ALANC10001 series is RoHS/ RoHS II Compliant and Pb free.

Moisture Sensitivity Level (MSL) – Level 1

Applicable Standards: IEEE 802.3u and 802.3ab

Operating Temperature: -40°C ~ +85°C

Storage Condition: -40°C ~ +85°C (on board),



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ABRACON IS
 ISO9001-2015
 CERTIFIED

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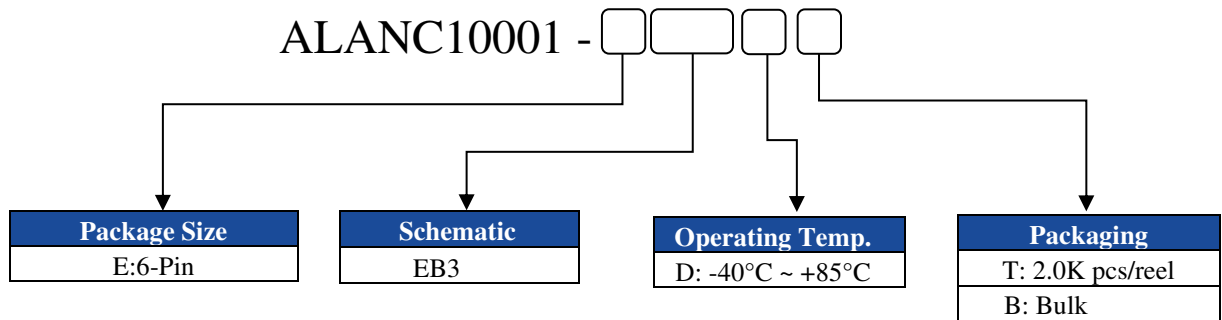


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Part Identification



Polarity Marking



Marking Method = Ink Marking



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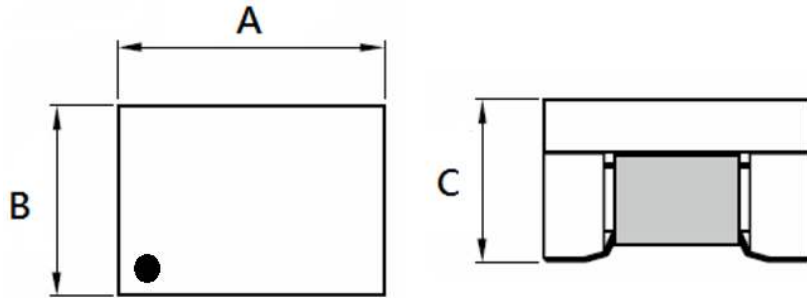
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Mechanical Specifications

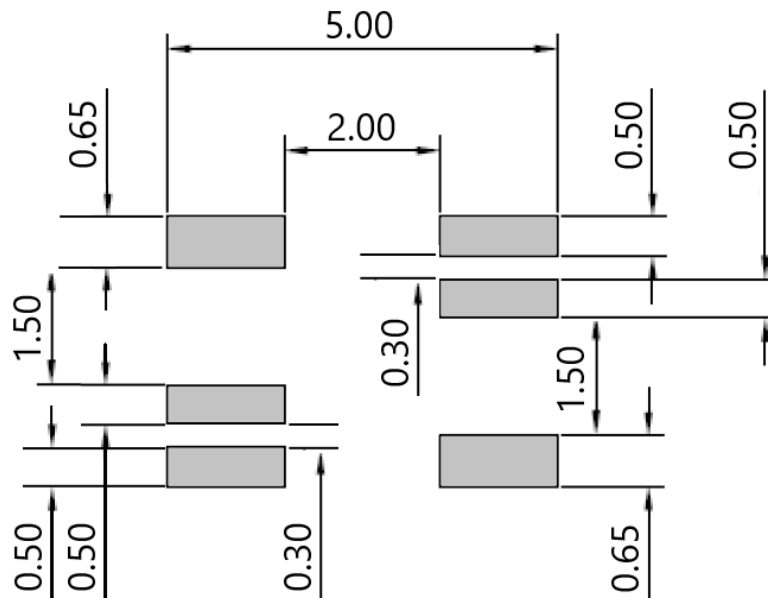
E: 6-pin



A	B	C
4.60 ±0.20	3.40 ±0.20	3.50 ±0.20

Coplanarity
0.10 MAX

Recommended Land Pattern



Dimensions: mm

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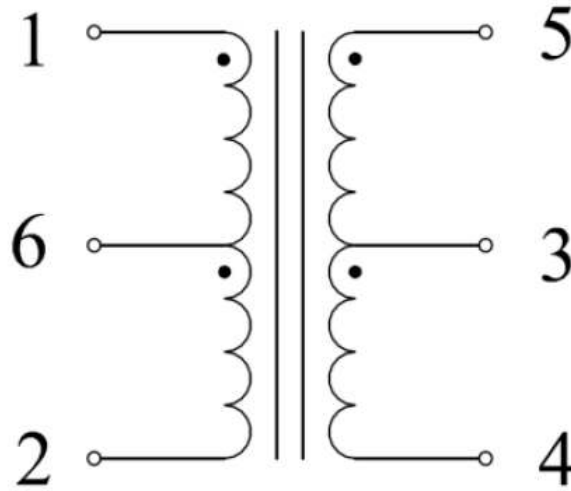


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Schematic

6 - Pin

EB3



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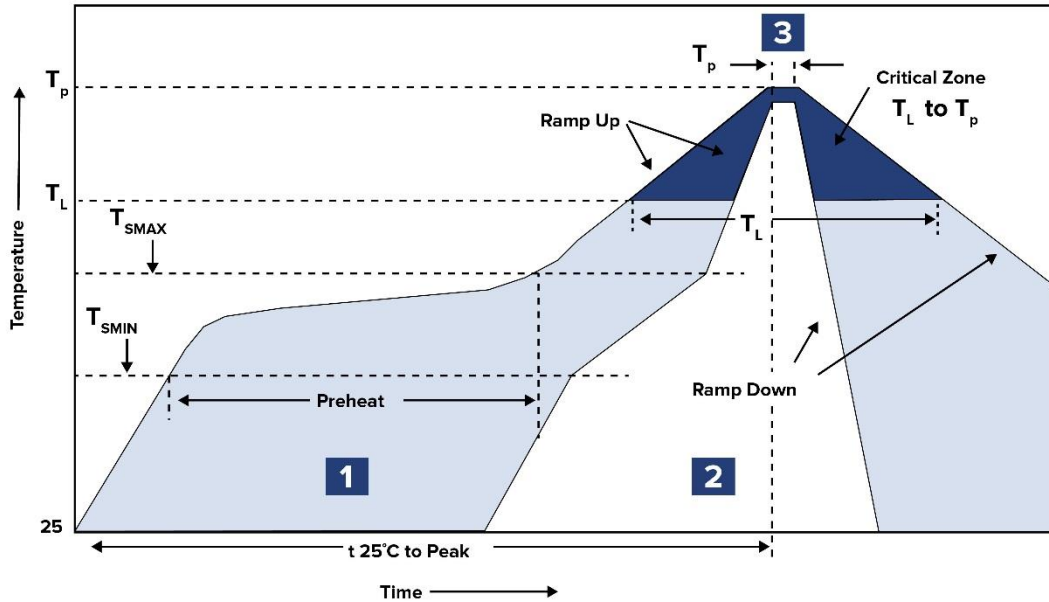


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 260°C	20 ~ 40 sec. MAX

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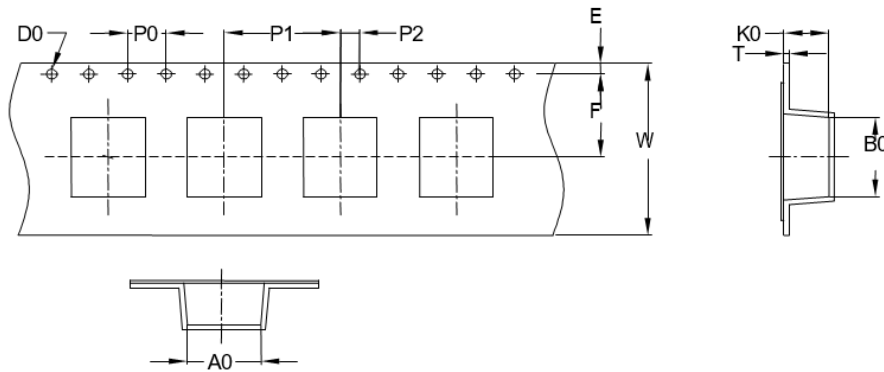
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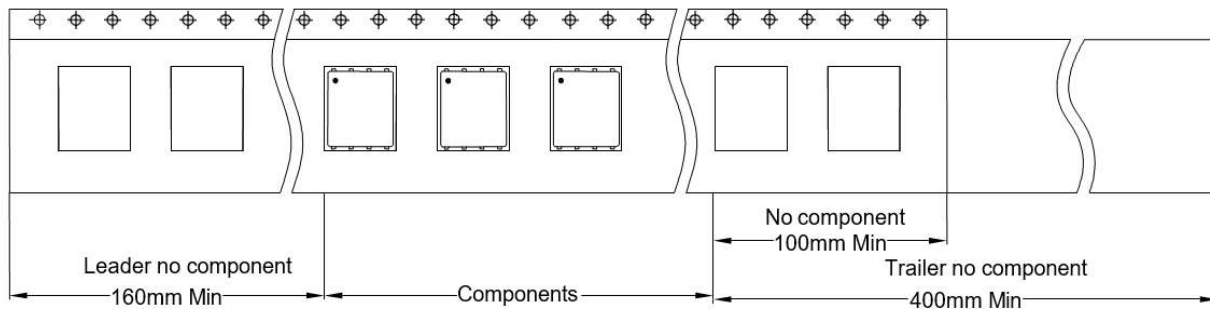
Packaging

Tape and Reel: 2,000 pcs/reel
Pieces Per Carton: 20,000 pcs
Weight Per Carton: 6 kg (approx.)
Dimensions of Carton: 345 x 345 x 220 mm



A0	B0	W	E	F	P0	P1	P2	D0	T	K0
3.70	4.90	12.00	1.75	5.50	4.00	8.00	2.00	1.50	0.40	3.70

Dimensions: mm



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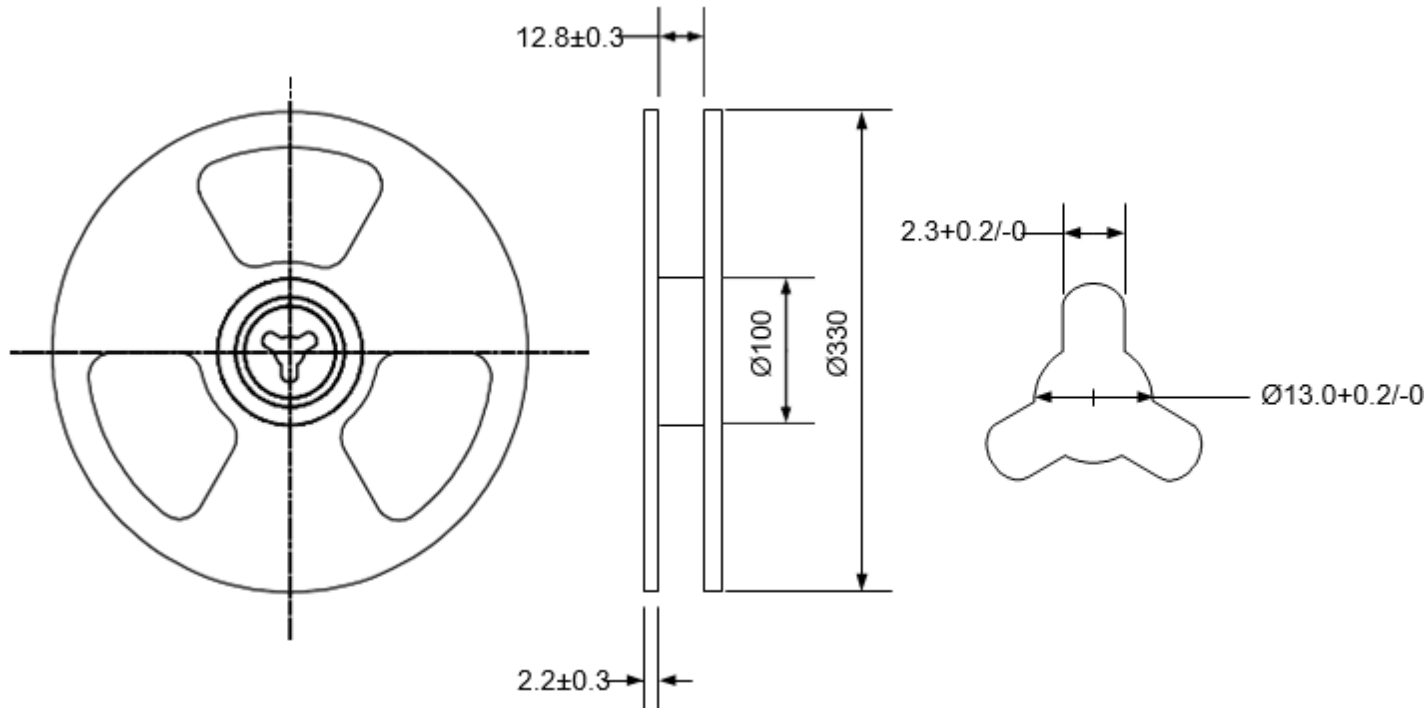
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Dimensions: mm

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