

10/100/1000 BASE-T Chip LAN Transformer



ALANC10001



4.5 x 3.2 x 3.5 mm
RoHS/RoHS II Compliant
MSL = 1

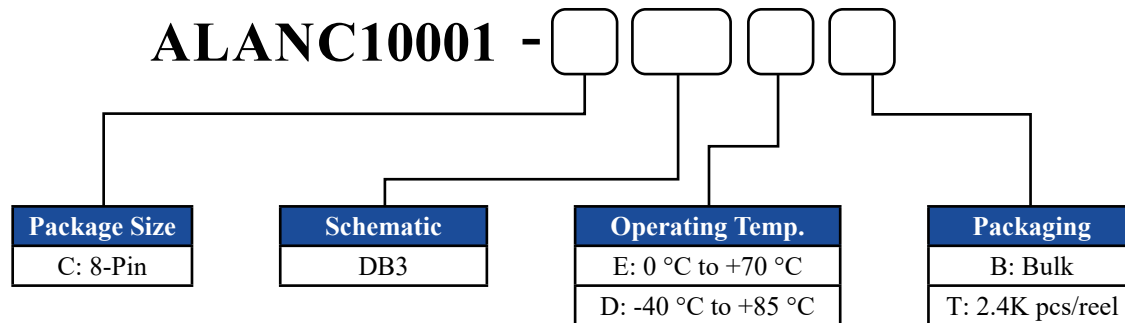
Features

- 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

Part Identification



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Electrical Specifications at 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			
	0.5-100 MHz	1-40 MHz	60 MHz	80 MHz	100 MHz
ALANC10001-CDB3	1.5	18	16	12	10

Part Number	Inductance (uH Min)	Leakage Inductance (uH)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)				Hi Pot (Vrms)	Weight (g)
				CT to TD	TD+ to TD-	CT to MX	MX+ to MX-		
ALANC10001-CDB3	200	0.5	35	2	3.5	2.5	5.0	1500	0.12

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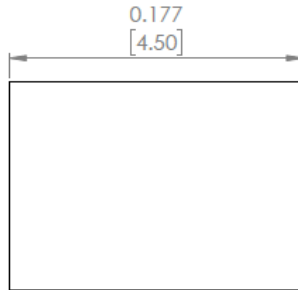
ALANC10001



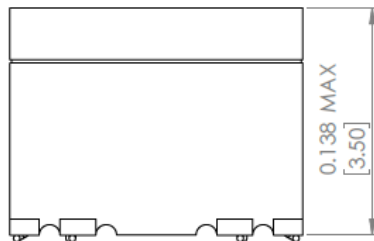
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Mechanical Dimensions

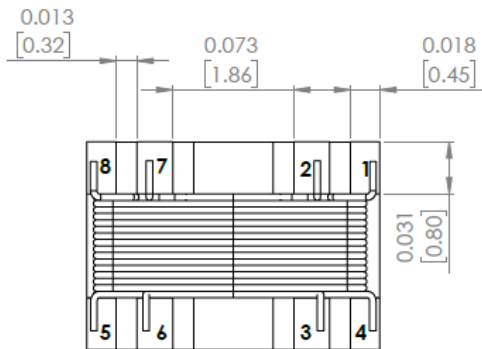
C: 8-pin



TOP VIEW

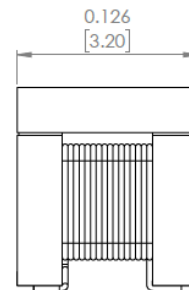
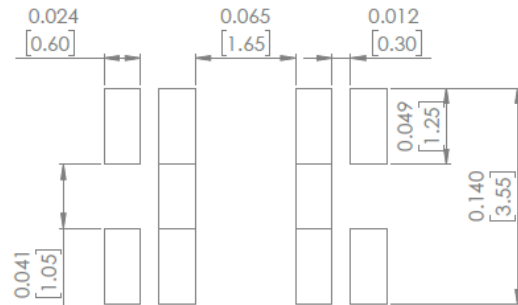


FRONT VIEW



BOTTOM VIEW

RECOMMENDED LAND PATTERN



SIDE VIEW

Unless otherwise specified, all tolerances are ± 0.25 in mm
Dimensions: inch/ [mm]



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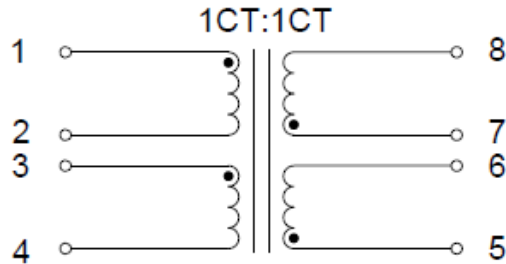


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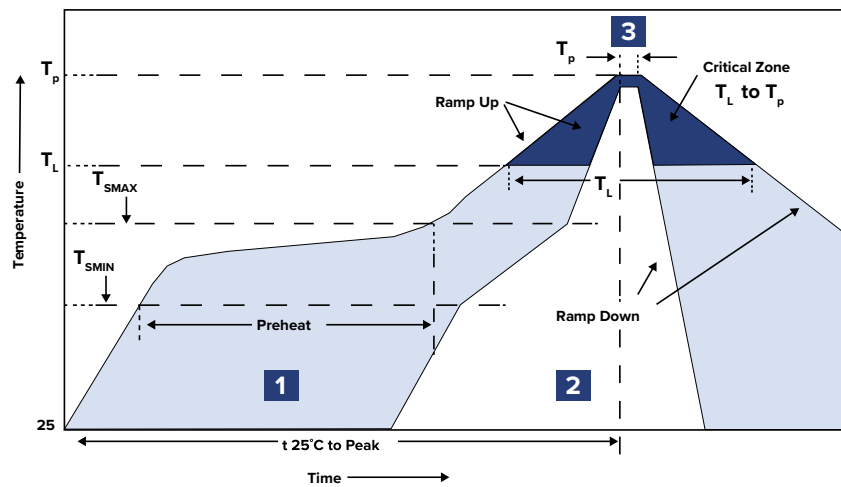
Schematics

8 - Pin

DB3



Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 245°C	20 ~ 40 sec.
3	Peak heat	T_P 260°C ± 5°C	10 sec. MAX

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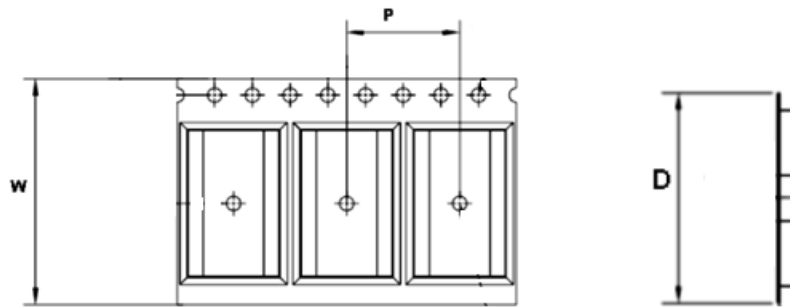
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Packaging

Tape and Reel: 2,400 pcs/reel
Pieces Per Carton: 28,800 pcs
Weight Per Carton: 11.28 kg (approx.)
Dimension of Carton: 345 x 345 x 290 mm



W	P	D
12.0	8.0	Ø330

Dimensions: mm

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