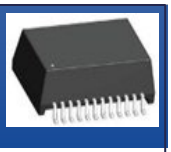
10/100 Base-TX Single PortType-1/POE LAN Transformer



ALAN1100X1 Series

Request Samples Check Inventory

12.8 x 6.9 x 5.6 mm
RoHS/RoHS Compliant
MSL Level = 1

Features

- Meets IEEE 802.3af standards
- Supports speed up to 100 Mbps
- Power Over Ethernet up to 15 Watts
- Current capability up to 350 mA
- Operating temperature ranges up to -55°C to +125°C
- Compatible with major ICs for Ethernet applications
- High performance magnetics for EMI suppression and common mode noise rejection
- 1CT:1CT TX and RX Transformers

Applications

- Fast Ethernet
- Hubs, servers, switches, routers, access points
- IP cameras, surveillance, and phone
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box

Part Identification

ALAN1100X1-□□□□

Package Size	Schematic	Operating Temp.	Packaging
2: 16-Pin	F00	E: 0 °C to +70 °C	T: 600 pcs/reel
	F30	D: -40 °C to +85 °C	
		J: -40 °C to +105 °C	
		K: -40 °C to +125 °C	
		L: -55 °C to +125 °C	

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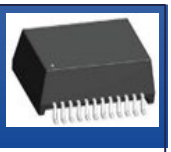
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Electrical Specifications

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Crosstalk (dB Min)				CMRR (dB Min)			DCMR (dB Min)		
	1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	100 KHz	1 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
ALAN1100X1-2F00	1.2	18	16	14	12	50	40	35	30	40	35	30	47	40	33
ALAN1100X1-2F30	1.2	18	16	14	12	50	40	35	30	40	35	30	47	40	33

Part Number	Inductance (uH Min)	Leakage Inductance (uH Max)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)		Hi Pot (Vrms)	Weight (g)
Test Condition	@100kHz, 0.1V 8mA DC Bias	@ 100KHz, 0.1 V Td to Mx	@ 100KHz Td to Mx	Primary	Secondary	6 sec.	Per Piece
ALAN1100X1-2F00	350	0.3	30	1.2	1.0	1500	0.7
ALAN1100X1-2F30	350	0.3	30	1.0	1.2	1500	0.7

Standard	Current Rating (mA Max)	Voltage Rating (V)	Power Delivered per Pair (W)		Power Delivered per Port (W)	
			Max	Typ	Max	Typ
IEEE 802.3af: Type-1 / POE	350	@57 V Continuous	20	16.8	20	16.8

Test Condition: 25°C
ALAN1100X1 series is RoHS/ RoHS II Compliant and Pb free.
Moisture Sensitivity Level (MSL) – Level 1

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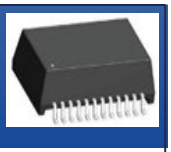
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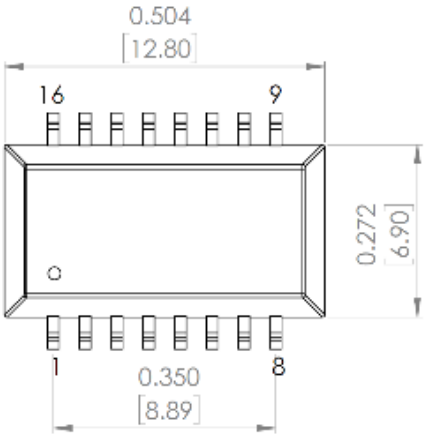
ALAN1100X1 Series

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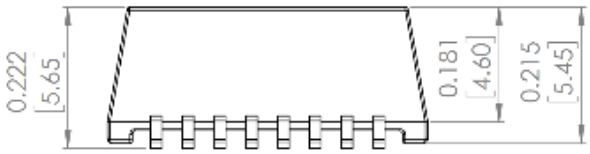
12.8 x 6.9 x 5.6 mm
RoHS/RoHS Compliant
MSL Level = 1

Mechanical Specifications

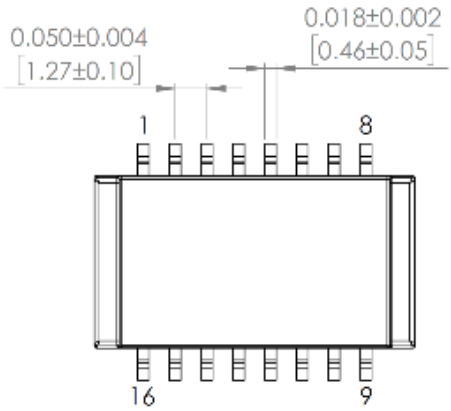
2: 16-pin



TOP VIEW

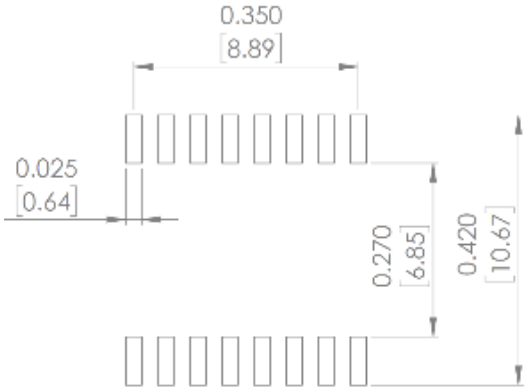


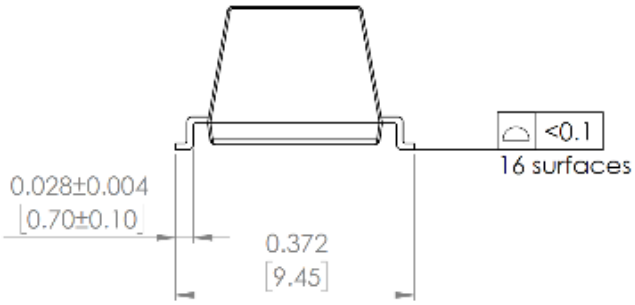
FRONT VIEW



BOTTOM VIEW

Recommended Landing Pattern





SIDE VIEW

Unless otherwise specified, all tolerances are ± 0.010 [0.25].

Unit: inch [mm]

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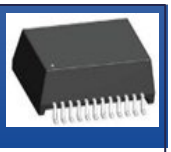
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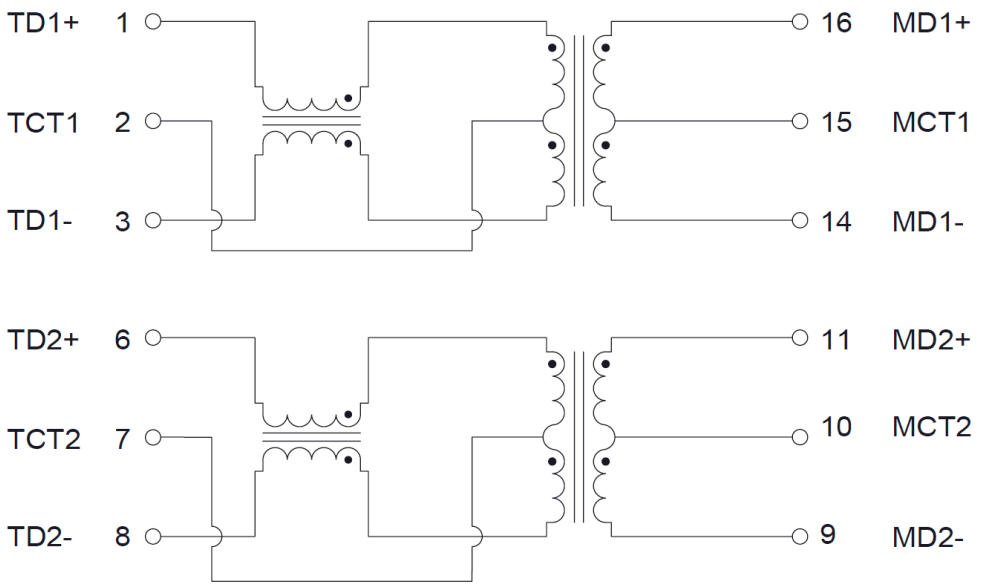
Request Samples

Check Inventory

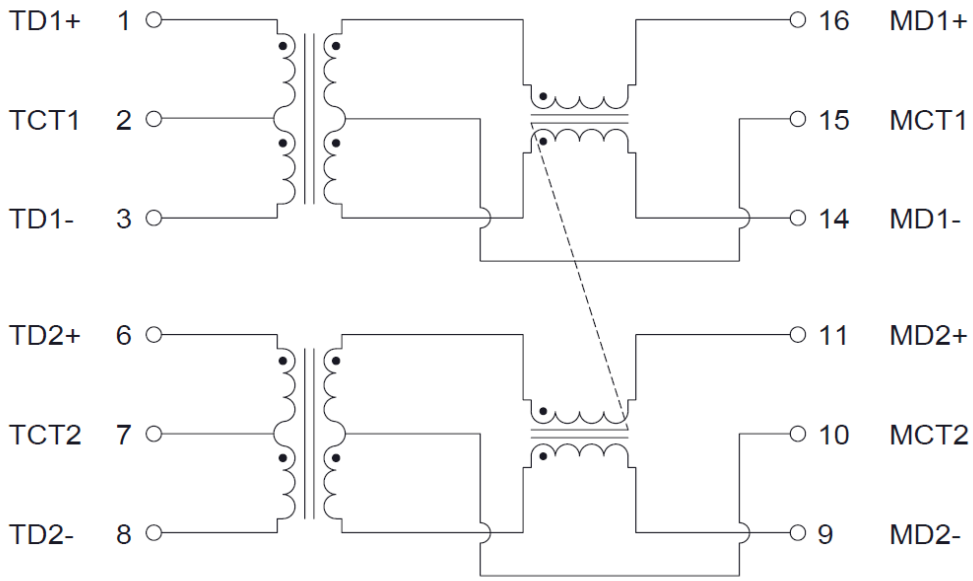
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RoHS/RoHS Compliant
MSL Level = 1

Schematics

F00



F30



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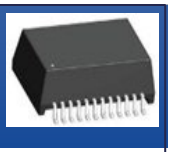
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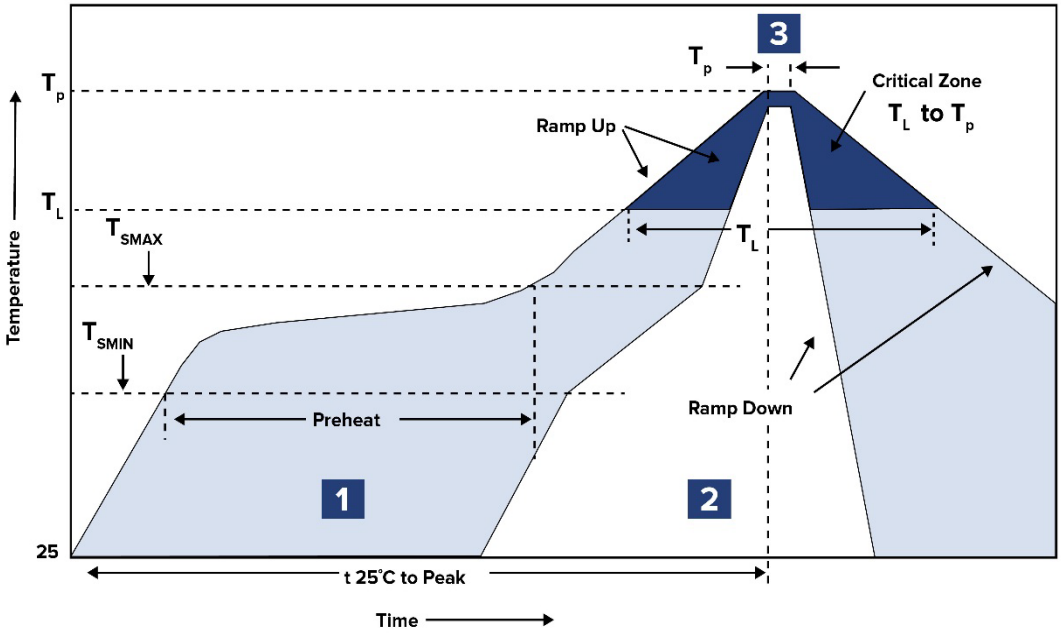


ALAN1100X1 Series

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12.8 x 6.9 x 5.6 mm
RoHS/RoHS Compliant
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ T_{SMAX} 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 250°C±5°C	5 sec. MAX

THE AVERAGE SPEED: 3°C/S MAX

THE AVERAGE COOLING SPEED: 6°C/S MAX

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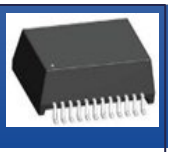
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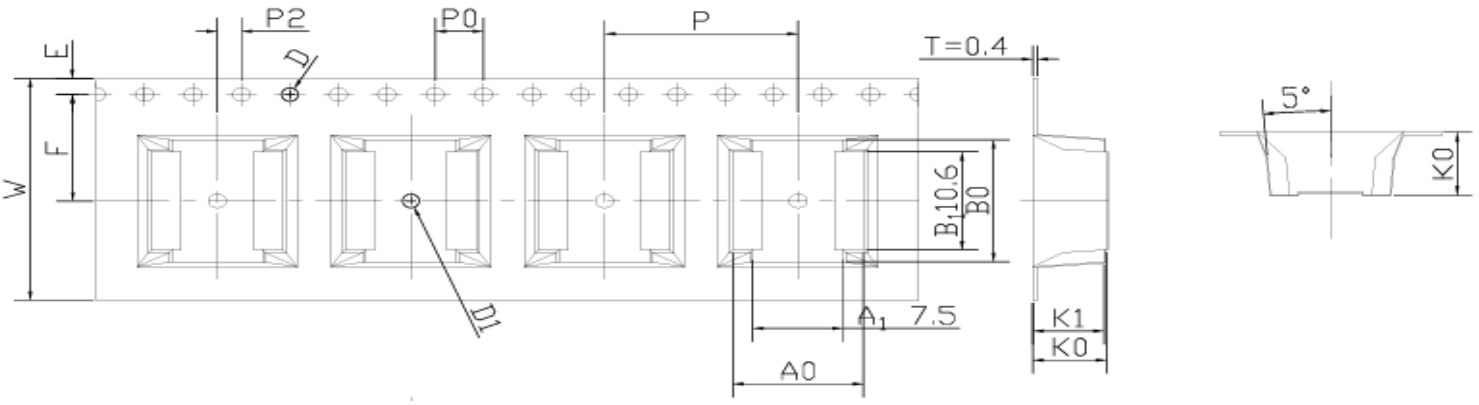
ALAN1100X1 Series

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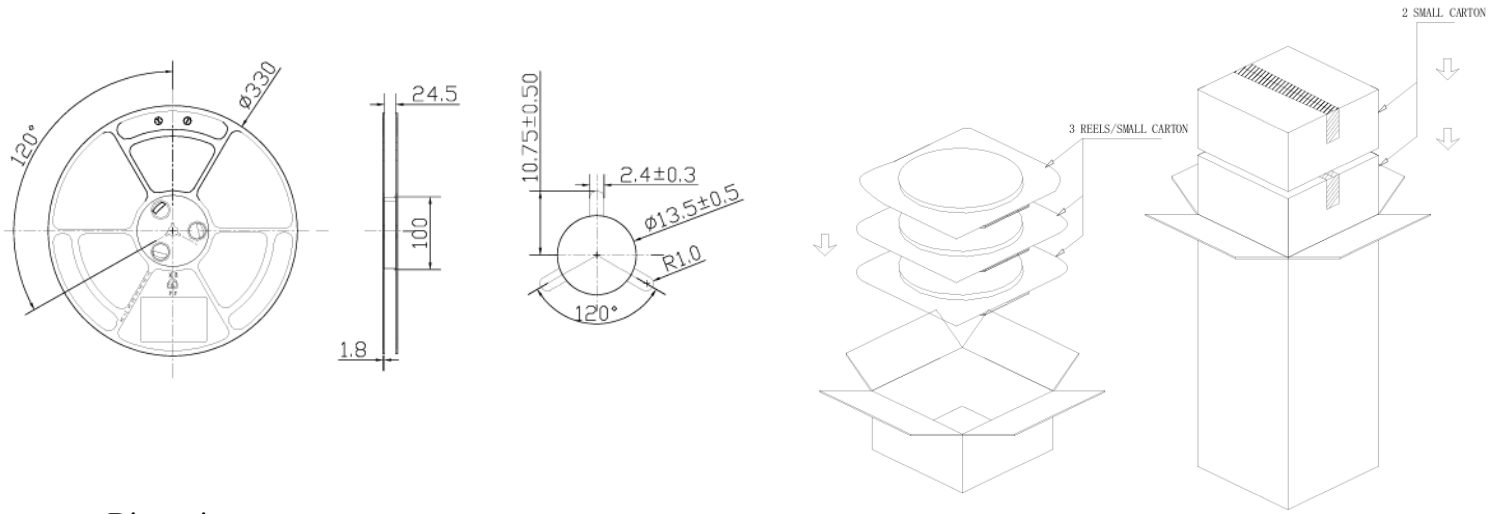
12.8 x 6.9 x 5.6 mm
RoHS/RoHS Compliant
MSL Level = 1

Packaging

PRIMARY PACKING: 600PCS/REEL
SMALL CARTON PACKING: 1800PCS/3 REEL
CARTON PACKING: 6REEL/CARTON (3600PCS/CARTON)
CARTON SIZE:370 x 370 x 250mm
GROSS WEIGHT: ABOUT 6.5KG



Item	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
Dim	24.0±0.30	10.8±0.15	13.5±0.15	6.1±0.10	5.9±0.10	16.0±0.10	11.5±0.10	1.75±0.10	1.5+0.10	1.5+0.10	4.0+0.10	2.0±0.10	0.4±0.05



Dimensions: mm

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

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