



12.8 x 6.9 x 5.6 mm

MSL = 1

RoHS/RoHS II Compliant

ALAN1100X1

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 range up to -55°C to +125°C
- Compatible with major IC's for Ethernet applications
- High performance magnetics for EMI suppression and common mode noise rejection
- 1CT:1CT TX and RX Transformers

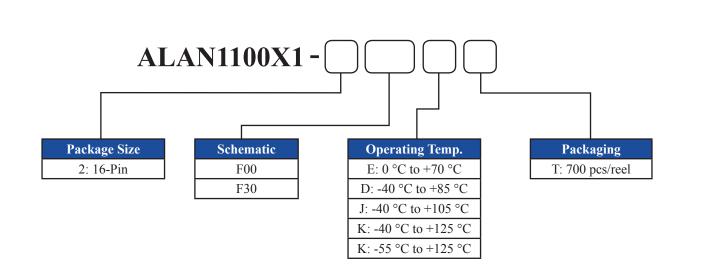
Applications

- Fast Ethernet
- Hubs, servers, switches, routers, access points

(Pb)

- IP cameras, surveillance, and phone
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box

Part Identification





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REVISED: 09-4-19

POE 10/100 BASE-TX Single Port SMD LAN Transformer Module

ALAN1100X1



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

Electrical Specifications at 25°C

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)		sistance Max)	Hi Pot (Vrms)	Weight (g)	
Test Condition	@100kHz, 0.1V, 8mA DC Bias	@100kHz, 0.1V 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	Voltage	Power Delivered per Port		
	(mA Max)	(V)	(W Max)		
IEEE 802.3af : Type-1 / POE	350	@57 V Continuous	15.4		



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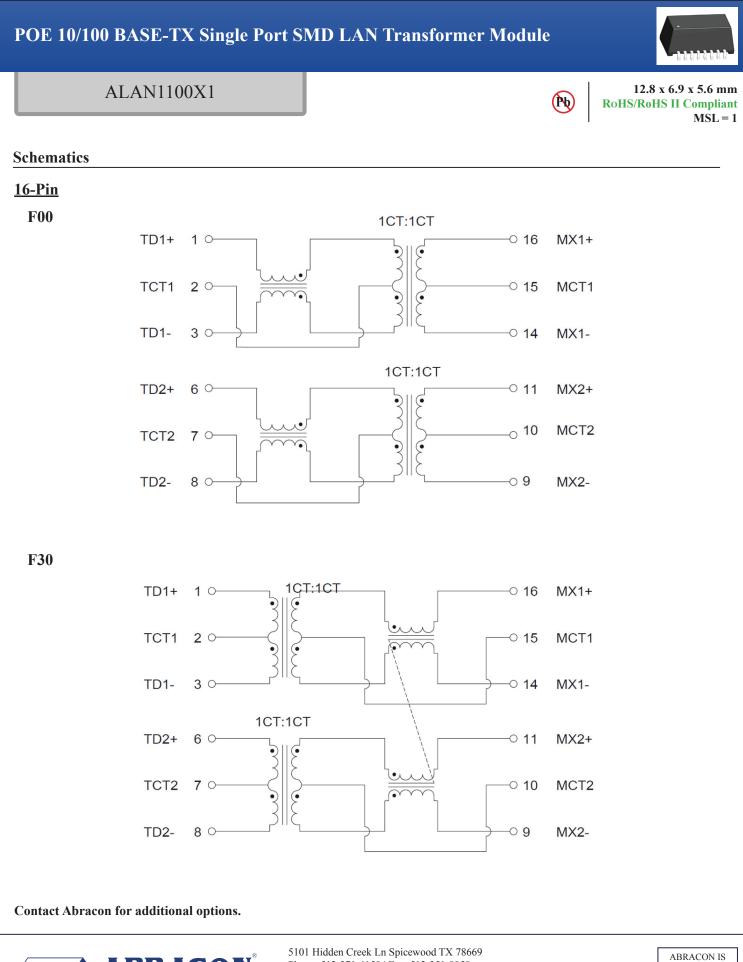
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POE 10/100 BASE-TX Single Port SMD LAN Transformer Module ALAN1100X1 12.8 x 6.9 x 5.6 mm (Pb) **RoHS/RoHS II Compliant** MSL = 1**Mechanical Dimensions** 2: 16-pin 0.504 12.80 RECOMMENDED LAND PATTERN 16 9 88888888 0.350 8.89 0.272 0 0.025 0.64 0.420 I H 0.270 8 0.350 8.89 TOP VIEW 0.215 [5.45] 0.181 4.60 0.222 5.65 FRONT VIEW <0.1 16 surfaces 0.028±0.004 [0.70±0.10] 0.372 0.018±0.002 9.45 0.050±0.004 0.46±0.05 1.27±0.10 SIDE VIEW 8 1 H 닡 8888888 Ħ 16 9 **BOTTOM VIEW** Unless otherwise specified, all tolerances are ±0.010 [0.25] **Dimensions: inch [mm]** 5101 Hidden Creek Ln Spicewood TX 78669 ABRACON IS Phone: 512-371-6159 | Fax: 512-351-8858 **REVISED: 09-4-19** ISO9001-2015

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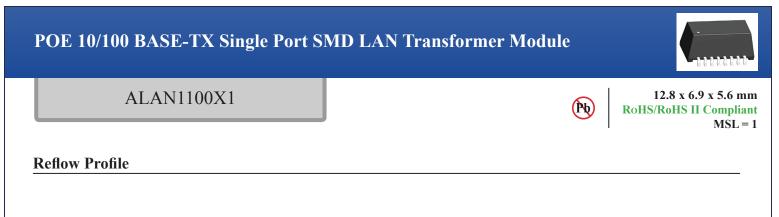


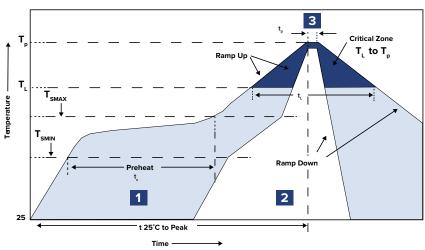
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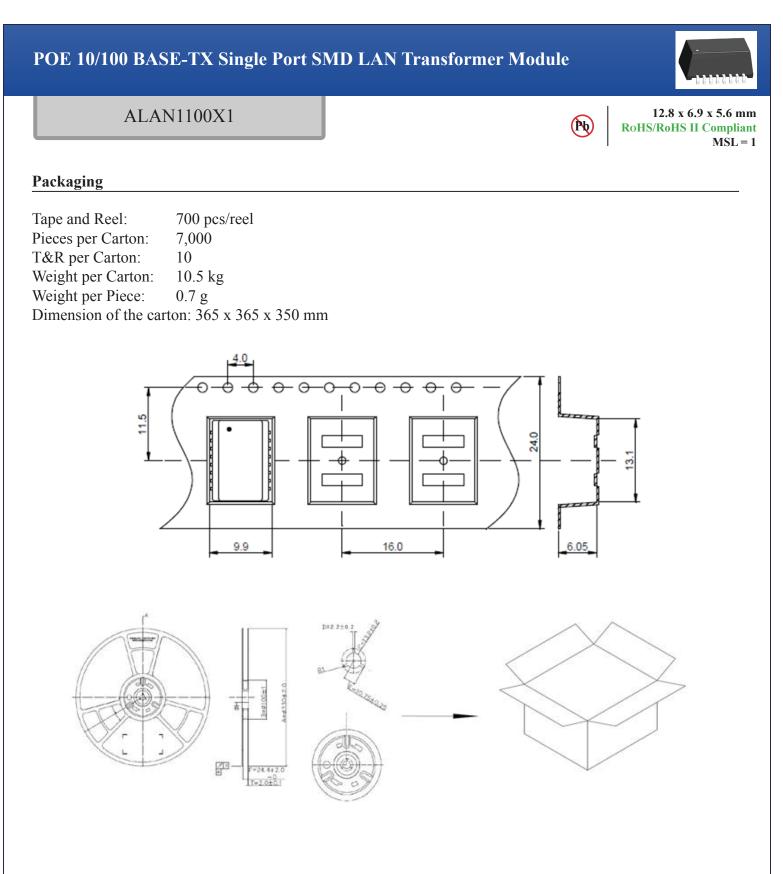


Zone	Description	Temperature	Time
1	Preheat / Soak	T_s 150 °C ~ 200 °C	t_s 60 ~ 120 sec.
2	Reflow	T _L 217 ℃	$t_{\rm L}$ 60 ~ 150 sec.
3	Peak heat	$T_{\rm p}$ 245 ± 5 °C	$t_{\rm P}$ 20 ~ 40 sec.



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Dimensions: mm

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