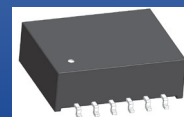


10/100 BASE-TX Single Port SMD LAN Transformer Module



ALANS100X1



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

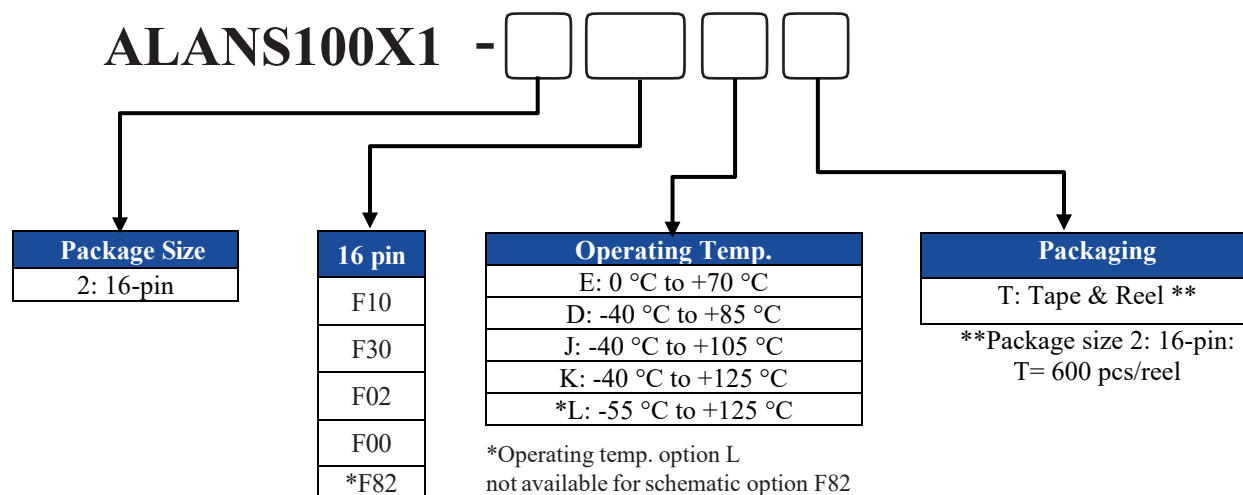
Features

- Meets IEEE 802.3u standards
- Compatible with 10 BASE-T and 100 BASE-TX
- Operating temperature range up to -55°C to +125°C
- RoHS Compliant
- High performance magnetics for EMI suppression and common mode noise rejection
- Multiple schematic and pinout options with 1.27mm pin pitch.
- 1CT:1CT TX and RX Transformers

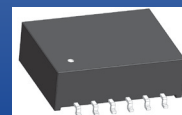
Applications

- Fast 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



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



ALANS100X1



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RoHS/RoHS II Compliant
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Electrical Specifications at 25°C

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				Crosstalk (dB Min)			CMRR (dB Min)			DCMR (dB Min)		
	0.5-100 MHz	1-40 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
ALANS100X1-2F10	-0.8	-18	-14.4	-12	-10	-45	-40	-35	-43	-37	-33	-43	-37	-33
ALANS100X1-2F30	-0.8	-18	-14.4	-12	-10	-45	-40	-35	-43	-37	-33	-43	-37	-33
ALANS100X1-2F02	-0.8	-18	-14.4	-12	-10	-45	-40	-35	-43	-37	-33	-43	-37	-33
ALANS100X1-2F00	-0.8	-18	-14.4	-12	-10	-45	-40	-35	-43	-37	-33	-43	-37	-33
ALANS100X1-2F82	-0.8	-18	-14.4	-12	-10	-45	-40	-35	-43	-37	-33	-43	-37	-33

Part Number	Inductance (uH Min)	Leakage Inductance (uH Max)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)		Hi Pot (VDC)
	@100kHz, 0.1V, 8mA DC Bias	@100kHz, 0.1V TD to MX	@100kHz, 0.1V TD to MX	Primary	Secondary	0.5mA/6 sec.
ALANS100X1-2F10	350	0.35	35	0.9	1.2	2500
ALANS100X1-2F30	350	0.35	35	0.9	1.2	2500
ALANS100X1-2F02	350	0.35	35	0.9	1.2	2500
ALANS100X1-2F00	350	0.35	35	0.9	1.2	2500
ALANS100X1-2F82	350	0.35	35	DCR(7-8):1.2	DCR(1-2,16-15,10-9):0.9	2500

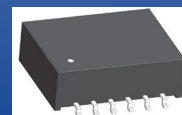


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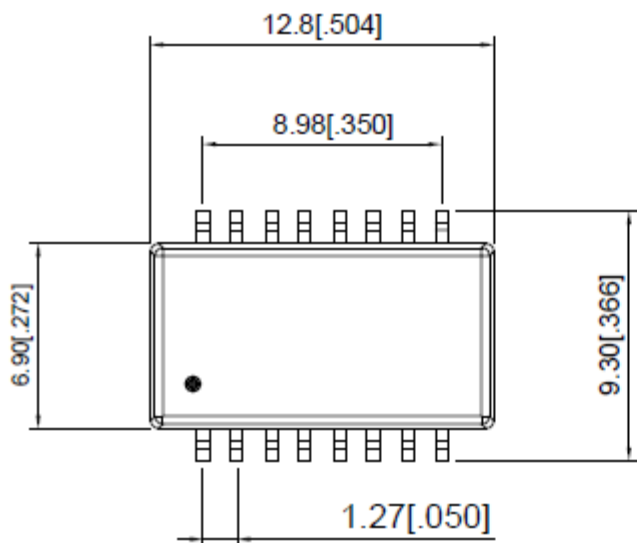
ALANS100X1



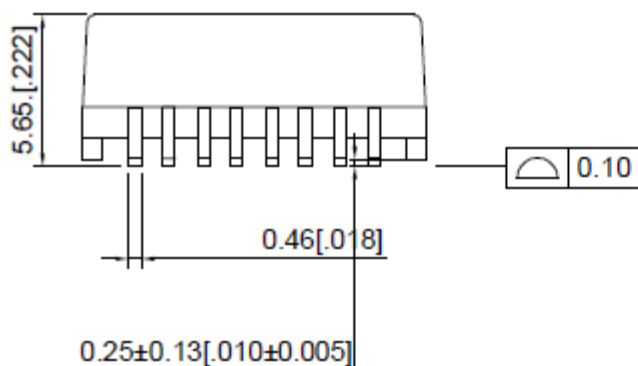
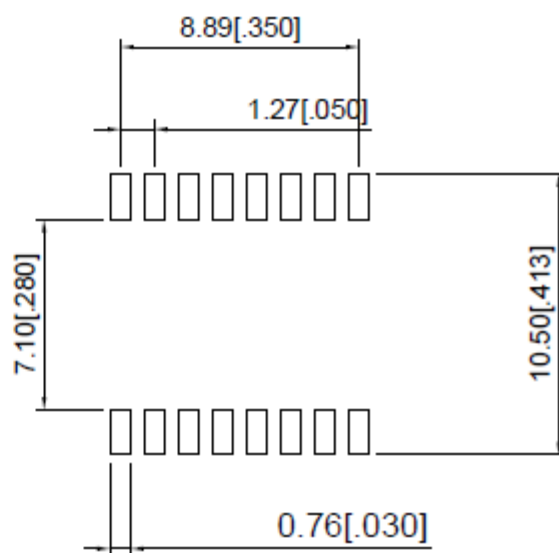
12.8 x 6.9 x 5.6 mm
RoHS/RoHS II Compliant
MSL = 1

Mechanical Dimensions

16-pin



SUGGESTED PAD LAYOUT



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

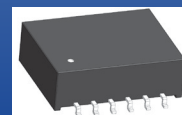


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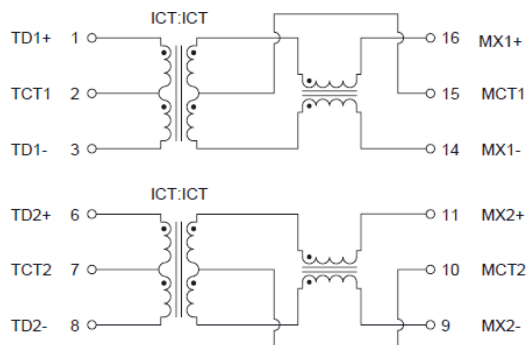


12.8 x 6.9 x 5.6 mm
RoHS/RoHS II Compliant
MSL = 1

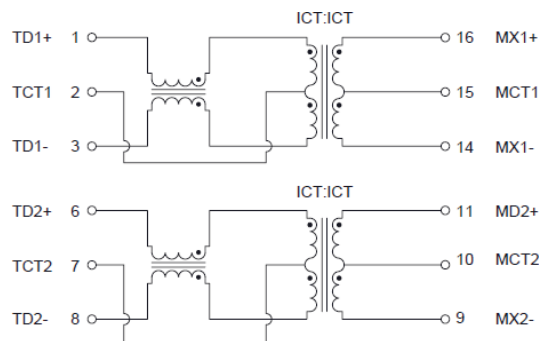
Schematics

16- Pin

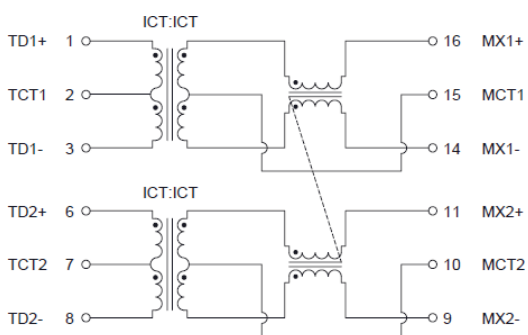
F10



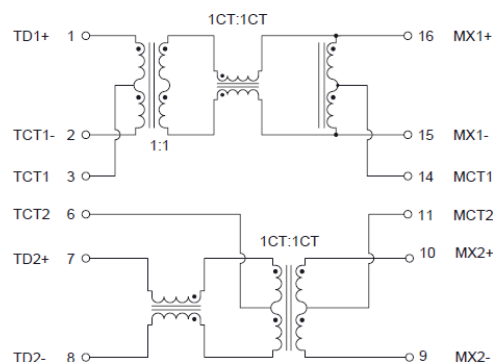
F00



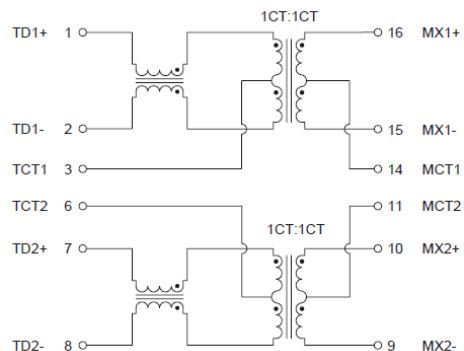
F30



F82



F02



Contact Abracon for additional options.

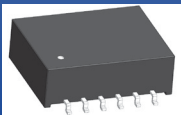


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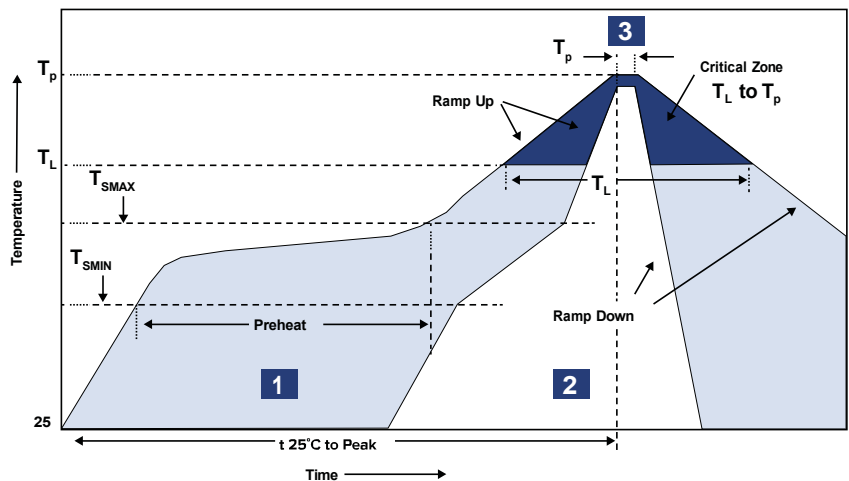


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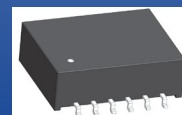
12.8 x 6.9 x 5.6 mm
RoHS/RoHS II Compliant
MSL = 1

Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ $150^{\circ}\text{C} \sim 200^{\circ}\text{C}$	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$	40 sec. MAX

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



ALANS100X1



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

Packaging

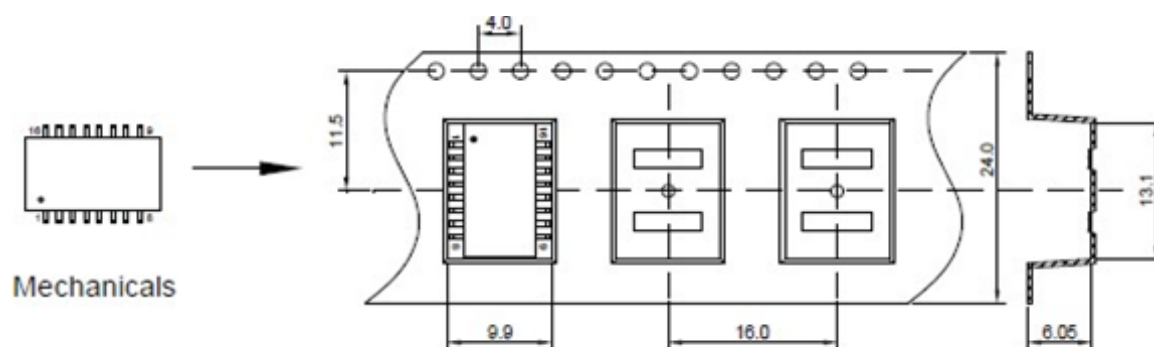
Tape and Reel: 600 pcs/reel

Pieces per Carton: 4800

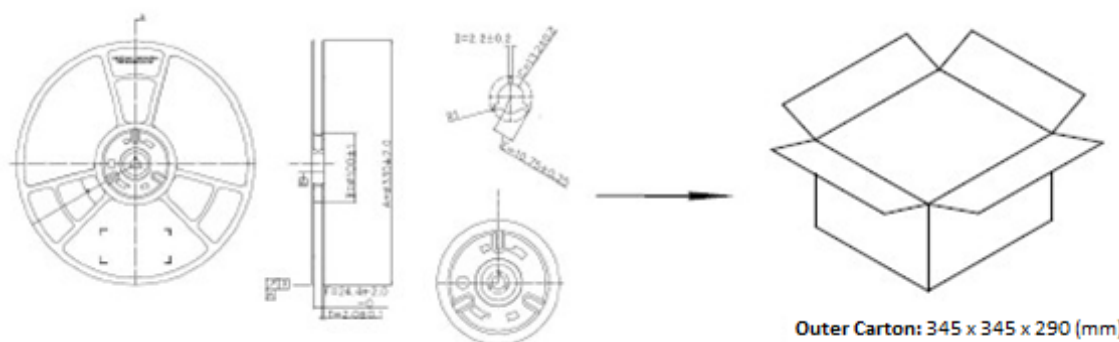
T&R per Carton: 8

Weight per Carton: 9.0kg

Weight per Piece: 0.7g



Tape & Reel



Dimensions: mm

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