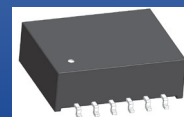


10/100 BASE-TX Single Port SMD LAN Transformer Module



ALANS100X1



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

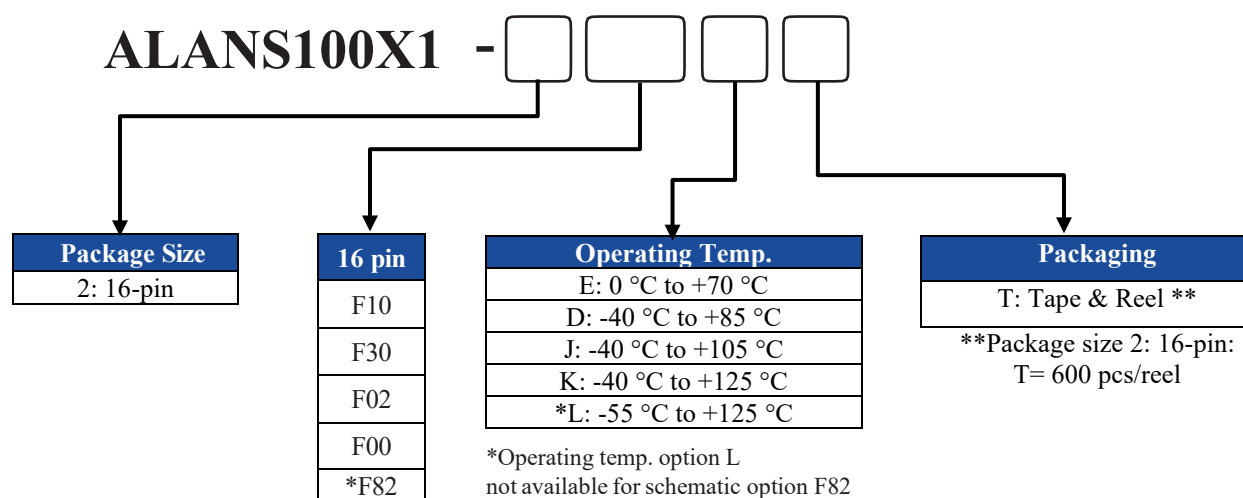
Features

- 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

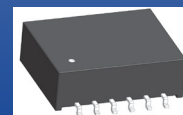
Applications

- 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



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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)		
	0.1-100 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	12	10	42	37	33	40	35	30	47	40	33
ALANS100X1-2F30	0.8	18	14	12	10	40	35	30	40	35	30	47	40	33
ALANS100X1-2F02	0.8	18	14	12	10	42	37	33	40	35	30	47	40	33
ALANS100X1-2F00	0.8	18	14	12	10	42	37	33	40	35	30	47	40	33
ALANS100X1-2F82	0.8	18	14	12	10	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 (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



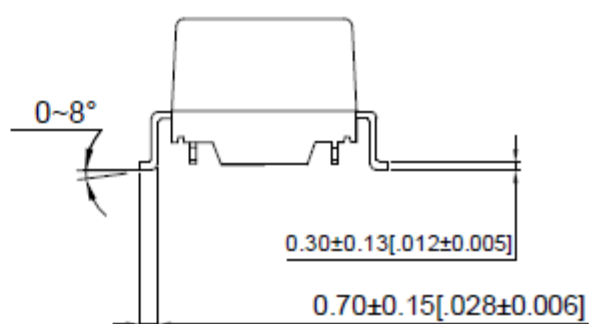
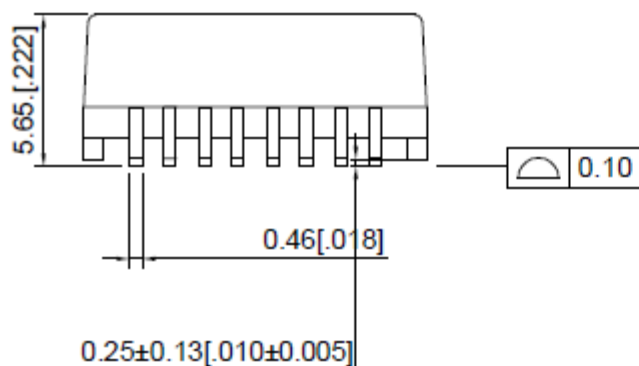
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
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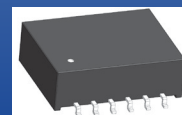
Mechanical Dimensions



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



ALANS100X1

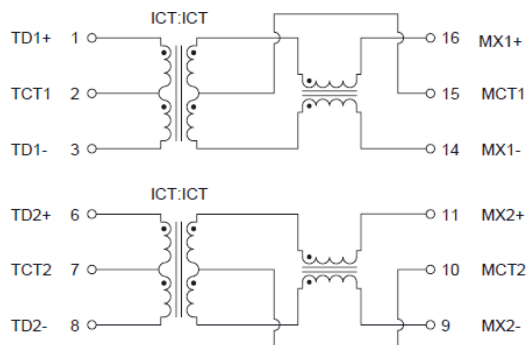


12.8 x 6.9 x 5.6 mm
RoHS/RoHS II Compliant
MSL = 1

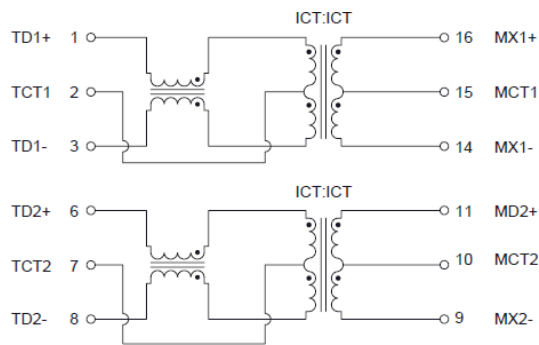
Schematics

16- Pin

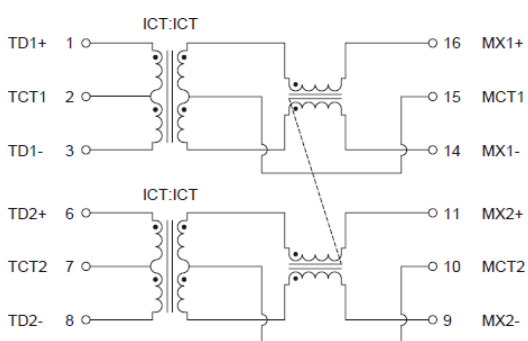
F10



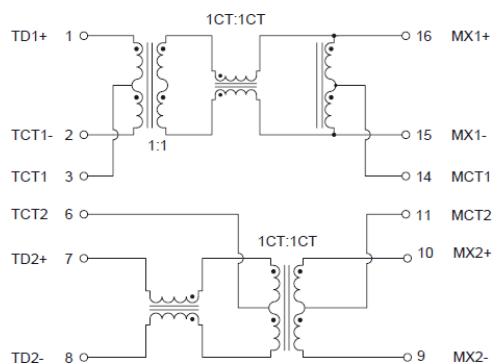
F00



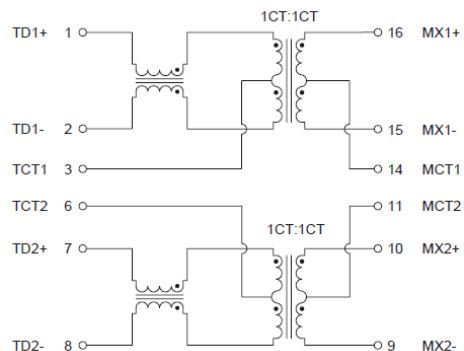
F30



F82



F02



Contact Abracon for additional options.

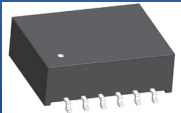


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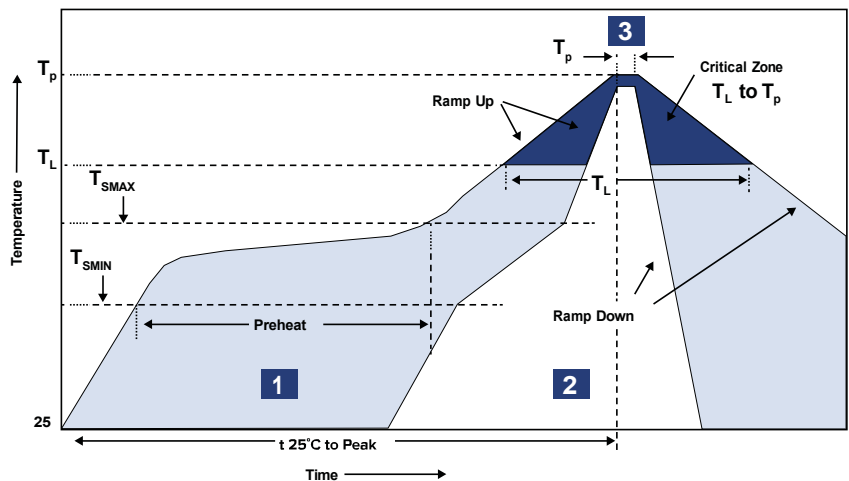


ALANS100X1



12.8 x 6.9 x 5.6 mm
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MSL = 1

Reflow Profile

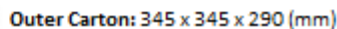


Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p 245°C±5°C	40 sec. MAX



Packaging

Weight per Piece: 0.7g



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