

ALANL100X1



12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

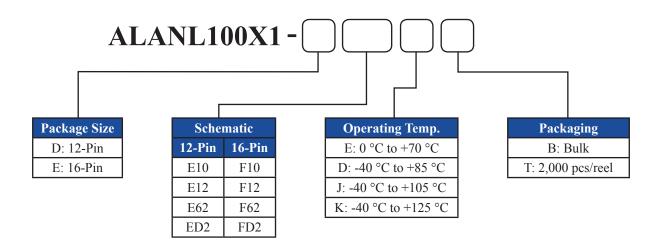
Features

- Low Profile of 2.15 mm
- Meets IEEE 802.3u standards
- Compatible with 10 BASE-T and 100 BASE-TX
- RoHS Compliant
- High performance magnetics for EMI suppression and common mode noise rejection
- 1CT:1CT TX and RX Transformers

Applications

- Fast Ethernet
- IP cameras, surveillance, and IP phone
- Industrial computers and robotics
- PC Card and Cardbus

Part Identification







ALANL100X1



12.7 x 7.1 x 2.1 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)			
	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
ALANL100X1-DE10	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-DE12	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-DE62	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-DED2	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-EF10	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-EF12	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-EF62	1.2	18	14.4	12	10	45	40	35	43	37	33	43	37	33
ALANL100X1-EFD2	1.2	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 (Vrms)	Weight (g)
Test Condition	@100kHz, 0.2V, 8mA DC Bias	@100kHz, 0.1V TD to MX	@100kHz, 0.1V TD to MX	TD+ to TD-	MX+ to MX-	0.5mA/6 sec.	Per Piece
ALANL100X1-DE10	350	0.5	30	1.0	1.5	1500	0.33
ALANL100X1-DE12	350	0.5	30	1.0	1.5	1500	0.33
ALANL100X1-DE62	350	0.5	30	1.5	1.0	1500	0.33
ALANL100X1-DED2	350	0.5	30	1.5 (1-2, 7-8)	1.0 (5-6, 11-12)	1500	0.33
ALANL100X1-EF10	350	0.5	30	1.0	1.5	1500	0.33
ALANL100X1-EF12	350	0.5	30	1.0	1.5	1500	0.33
ALANL100X1-EF62	350	0.5	30	1.5	1.0	1500	0.33
ALANL100X1-EFD2	350	0.5	30	1.5 (1-2, 9-10)	1.0 (7-8, 15-16)	1500	0.33





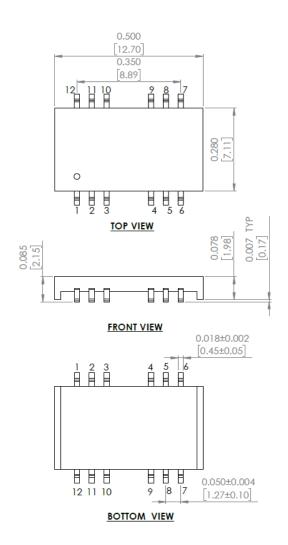
ALANL100X1

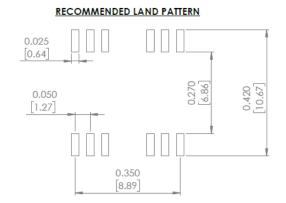


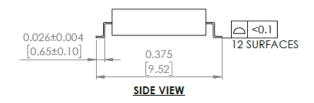
12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

Mechanical Dimensions

D: 12-pin







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





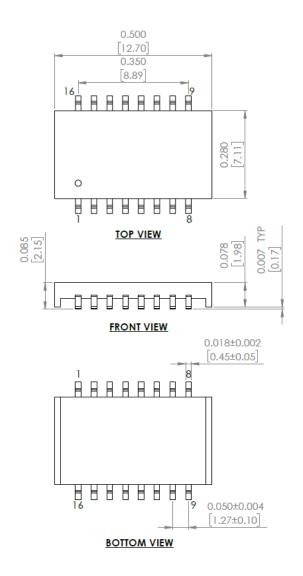
ALANL100X1



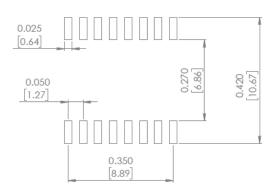
12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

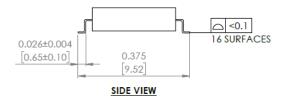
Mechanical Dimensions

E: 16-pin



RECOMMENDED LAND PATTERN





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





ALANL100X1

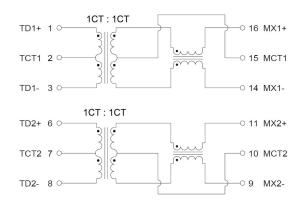


12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

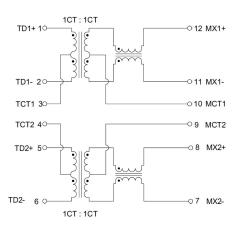
Schematics

12-Pin

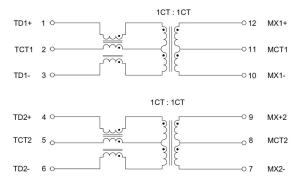
E10



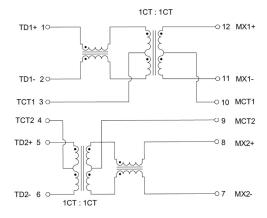
E12



E62



ED2



Contact Abracon for additional options.





ALANL100X1

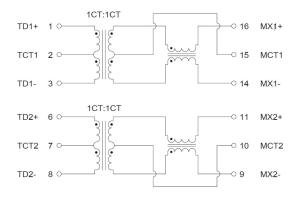


12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

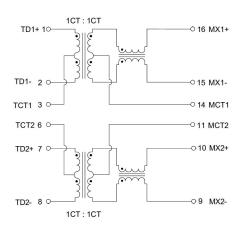
Schematics

16-Pin

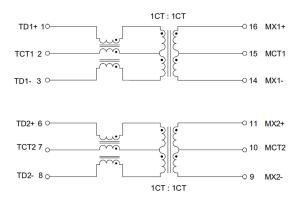
F10



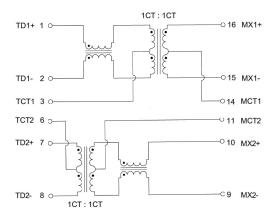
F12



F62



FD2



Contact Abracon for additional options.



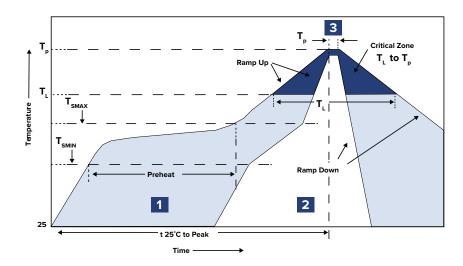


ALANL100X1



12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

Reflow Profile



Zone	Description	Temperature	Time		
1	Preheat / Soak	$T_{\text{SMIN}} \sim T_{\text{SMAX}}$ $150^{\circ}\text{C} \sim 200^{\circ}\text{C}$	60 ~ 180 sec.		
2	Reflow	Т _ь 245°С	20 ~ 40 sec.		
3	Peak heat	T _P 240°C±5°C	10 sec. MAX		





ALANL100X1



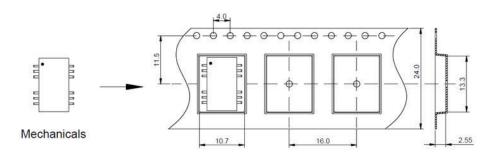
12.7 x 7.1 x 2.1 mm RoHS/RoHS II Compliant MSL = 1

Packaging

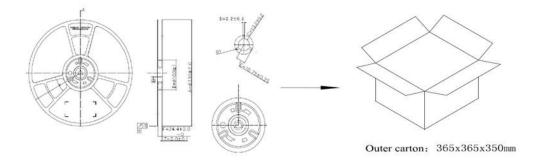
Tape and Reel: 2,000 pcs

Pieces per Carton: 20,000 pcs/box T&R per Carton: 10 T&R/box

Weight per Carton: 13.3kg Weight per Piece: 0.33g



Tape & Reel



Dimensions: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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

REVISED: 08-5-19

ABRACON IS ISO9001-2015 CERTIFIED

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

ALANL100X1-EF12ET ALANL100X1-DE10ET ALANL100X1-DE12DT ALANL100X1-EF62DT ALANL100X1
EF10DT ALANL100X1-DE12KT ALANL100X1-EF12KT ALANL100X1-DE62ET ALANL100X1-DE10DT

ALANL100X1-DE62KT ALANL100X1-EF62ET ALANL100X1-DED2JT ALANL100X1-EFD2KT ALANL100X1-DE62DT

ALANL100X1-DE10JT ALANL100X1-EF62JT ALANL100X1-EF10ET ALANL100X1-DE10KT ALANL100X1-EF12JT

ALANL100X1-EFD2DT ALANL100X1-EF12DT ALANL100X1-DED2KT ALANL100X1-DE12JT ALANL100X1
DED2ET ALANL100X1-EFD2JT ALANL100X1-EFD2ET ALANL100X1-EF62KT ALANL100X1-EF10JT ALANL100X1
DED2DT ALANL100X1-EF10KT ALANL100X1-DE62JT ALANL100X1-DE12ET