

10/100 Base-T Single Port LAN Transformer

Extended Temperature

ALAN-101

RoHS/RoHS II Compliant



12.8 x 9.30 x 5.65 mm

FEATURES:

- Meet IEEE802.3 specification
- Extended Temperature (-40°C - +85°C)
- ROHS peak reflow temperature rating 230°C
- 1500Vrms Hi-Pot

APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 10/100Base-T Ethernet-LAN
 - VoIP
 - Symmetrical Tx & RX channels for Auto MDI/MDIX capability
 - Provides signal conditioning, EMI suppression and signal isolation.
 - Hubs/Switches/Routers/Servers/NIC Cards

STANDARD SPECIFICATIONS:

Key Electrical Specifications @ 25°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio ($\pm 2\%$)		1CT:1CT			
Inductance (OCL)	350			μH	100KHz/0.1V@8mA
Leakage Inductance (LL)			0.5	μH	100KHz/0.1V
Cw/w			30	pF	100KHz/0.1V
DC Resistance			1.2	Ω	
Insertion Loss			-1.1	dB	0.1-100MHz
Return Loss		-18		dB	30MHz
		-14			60MHz
		-11.5			80MHz
Cross Talk		-45		dB	30MHz
		-40			60MHz
		-35			100MHz
Differential to Common Mode Rejection		-42		dB	30MHz
		-37			50MHz
		-33			100MHz
Common Mode Rejection	-30			dB	1-100MHz
Hi-Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				

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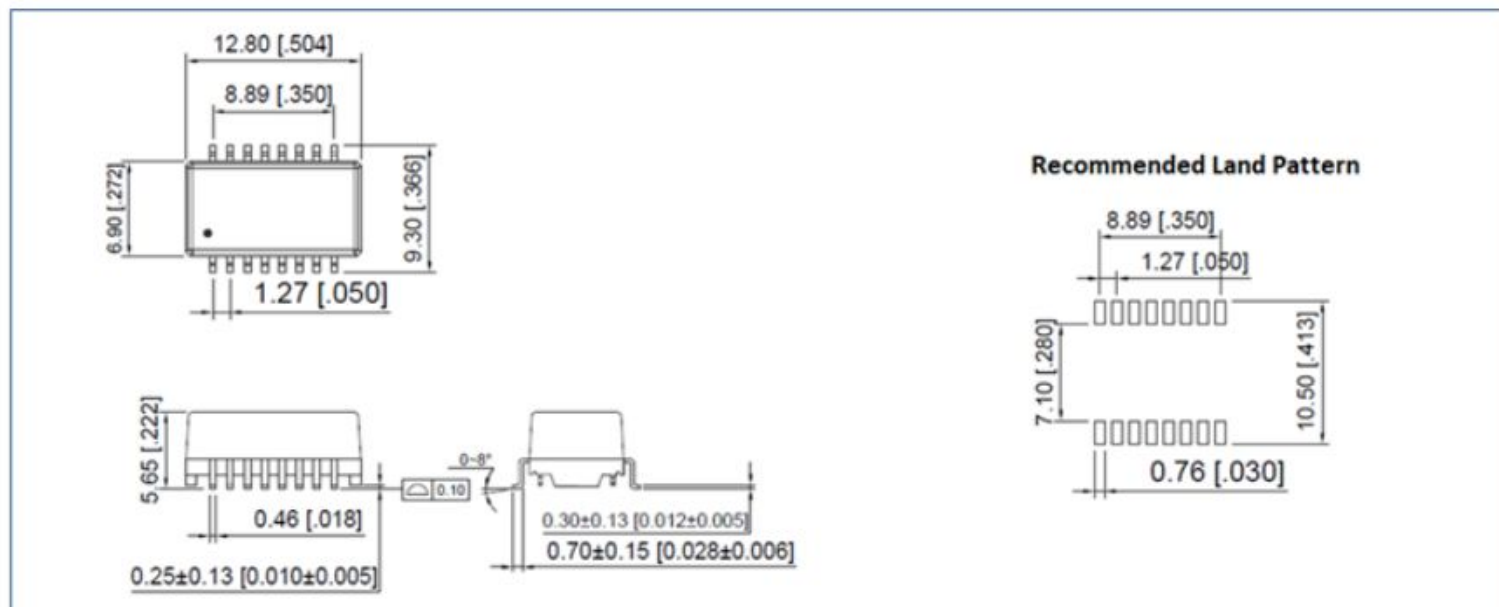
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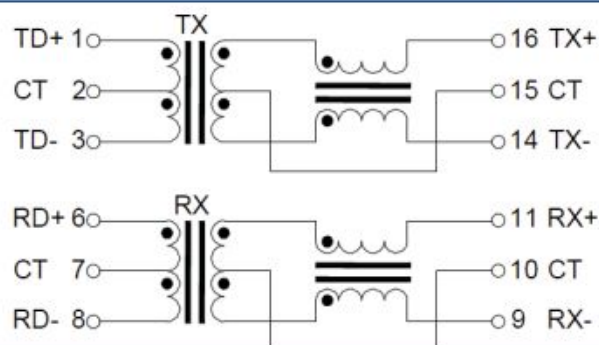


12.8 x 9.30 x 5.65 mm

OUTLINE DRAWING:



SCHEMATIC:

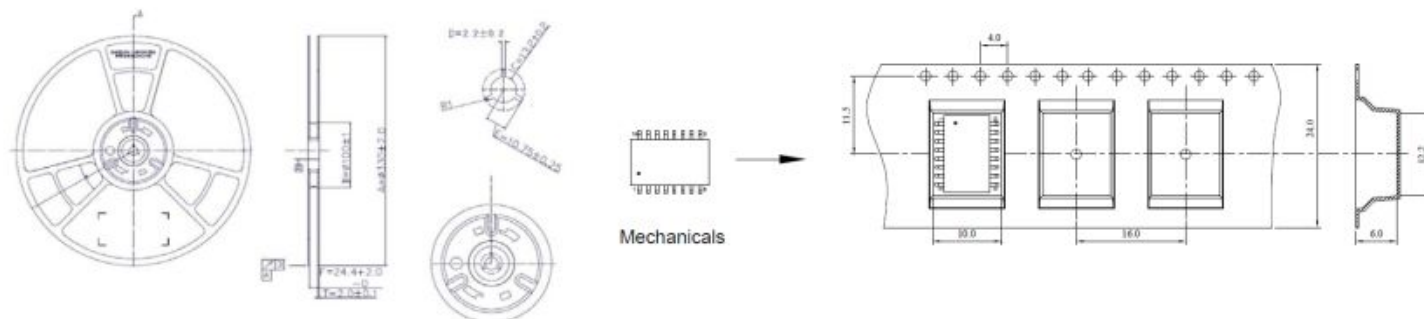


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Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts _{max} to Tp)	3°C /second max.
Preheat -Temperature Min (Ts _{min}) -Temperature Max (Ts _{max}) -Time (ts _{min} to ts _{max})	100°C 150°C 60-120 seconds
Time maintained above: -Temperature (Ti) -Time (ti)	183°C 60-150 seconds
Peak/Classification Temperature (Tp)	230±5°C
Time within 5°C of actual Peak Temperature (tp)	10-30 seconds
Ramp-Down Rate	6°C /seconds max
Time 25°C to Peak Temperature	8 minutes max.

Packing: 600pcs/reel
Weight/pcs: 0.62 grams
Weight/carton: 6.5 kg



Dimensions: mm

ABRACON IS
ISO9001:2015
CERTIFIED



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For terms and conditions of sale please visit:
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