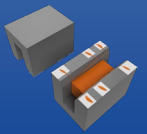


10/100/1000 Base-T, SMD PoE LAN Isolation Transformer



ALANC001G

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4.6 x 3.4 x 3.5 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Uniform transformer windings
- Power over Ethernet (PoE, PoE+) capable.
- Meets IEEE 802.3u and 802.3ab standards
- Compatible with 10 BASE-T, 100 BASE-TX and 1000 BASE-T
- Symmetric Orientation
- Operating temperature range of -40°C to +85°C
- RoHS Compliant
- 1CT:1CT Transformer

Applications

- Fast and gigabit Ethernet
- Servers, switches and routers
- IP cameras, surveillance, and phone
- Access points
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box

Electrical Specifications @25°C

Part Number*	Inductance (uH Min)	Interwinding Capacitance (pF Max)	DC Resistance (Ω Max)		Rated Current (mA)	Insertion Loss (dB Max)	Return Loss (dB Min)	Hi Pot (VAC)	Turn Ratio
Test Condition	@100kHz, 0.1V	@ 100KHz, 0.2V	Pins 1-2	Pins 4-5	Pins 1-2-6 Pins 5-4-3	1 ~125 MHz	1 ~125 MHz	1 sec.	1-2 : 4-5
ALANC001G1-EADT	200	35	1.5	1.5	300	-1.5	-10	1500	1CT:1CT
ALANC001G2-EADT	180	35	1.2	1.2	600	-1.5	-10	1500	1CT:1CT

*The "T" at the end of the part numbers refers to "Tape & Reel" packaging. For other options, please refer to the Part Identification section.

ALANC001G series is RoHS/ RoHS II Compliant and Pb free.

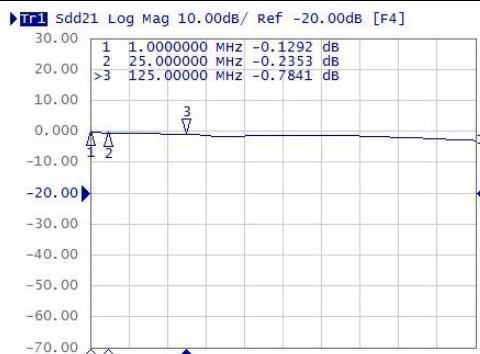
Applicable Standards: IEEE 802.3u and 802.3ab.

Operating Temperature: -40°C ~ +85°C.

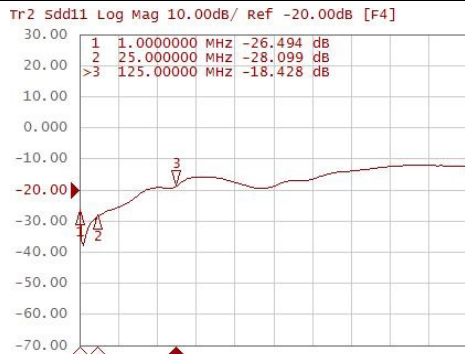
Storage Condition: -40°C ~ +85°C (on board), 40% - 60% RH.

ALANC001G1-EADT

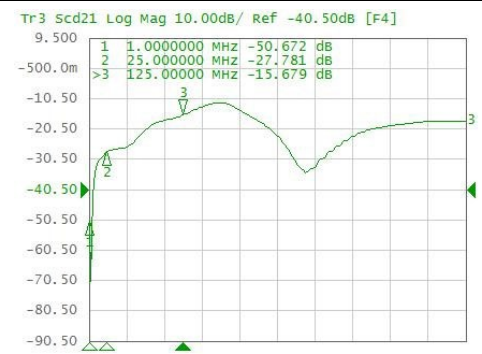
Insertion Loss (dB)



Return Loss (dB)



DCMR (dB)

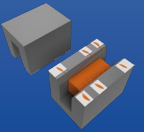


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10/100/1000 Base-T, SMD PoE LAN Isolation Transformer



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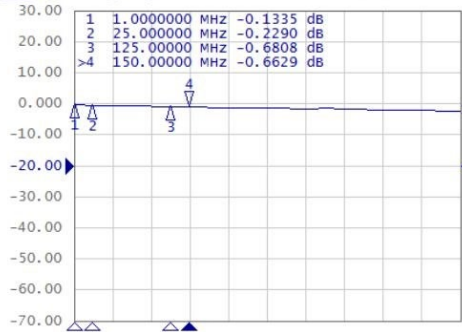


4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

ALANC001G2-EADT

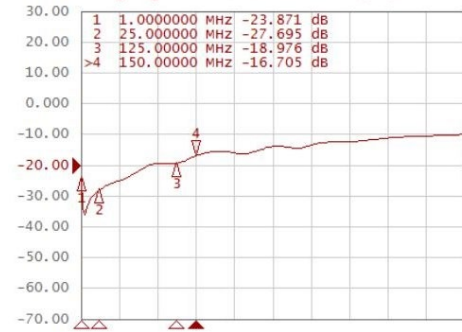
Insertion Loss (dB)

Tr1 Sdd21 Log Mag 10.00dB/ Ref -20.00dB [F4]



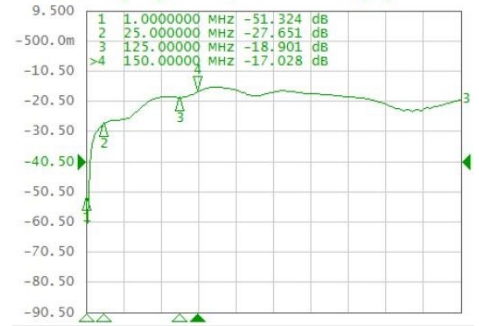
Return Loss (dB)

Tr2 Sdd11 Log Mag 10.00dB/ Ref -20.00dB [F4]



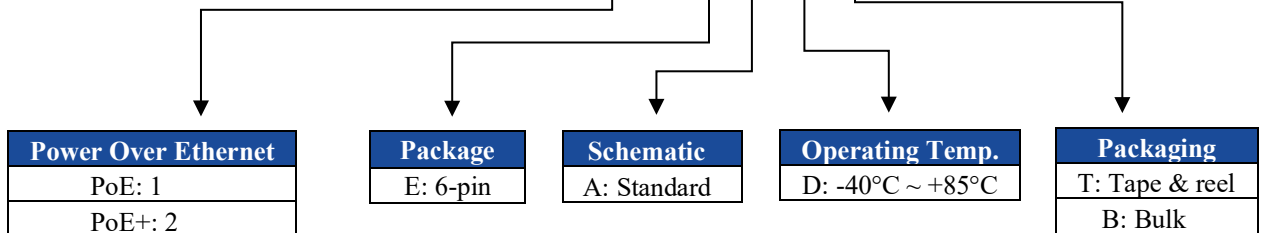
DCMR (dB)

Tr3 Scd21 Log Mag 10.00dB/ Ref -40.50dB [F4]

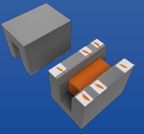


Part Identification

ALANC001G -



10/100/1000 Base-T, SMD PoE LAN Isolation Transformer



ALANC001G

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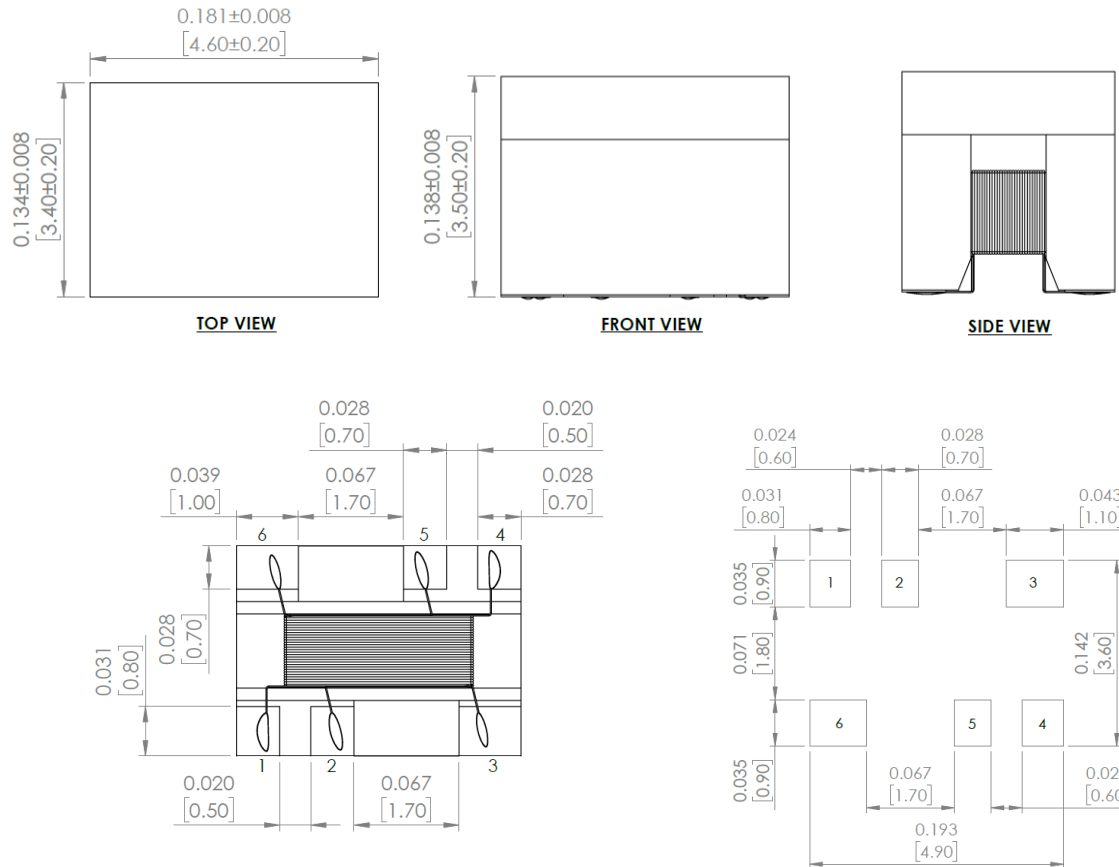
Check Inventory



4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications

Package E: 6-pin

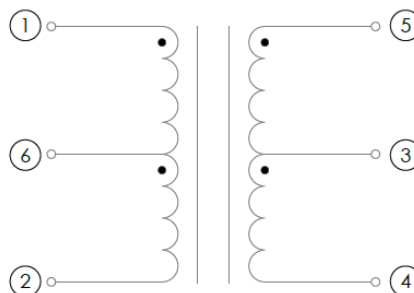


Dimensions unit: inches [mm]

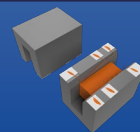
Recommended Land Pattern

Schematic

A: Standard



10/100/1000 Base-T, SMD PoE LAN Isolation Transformer



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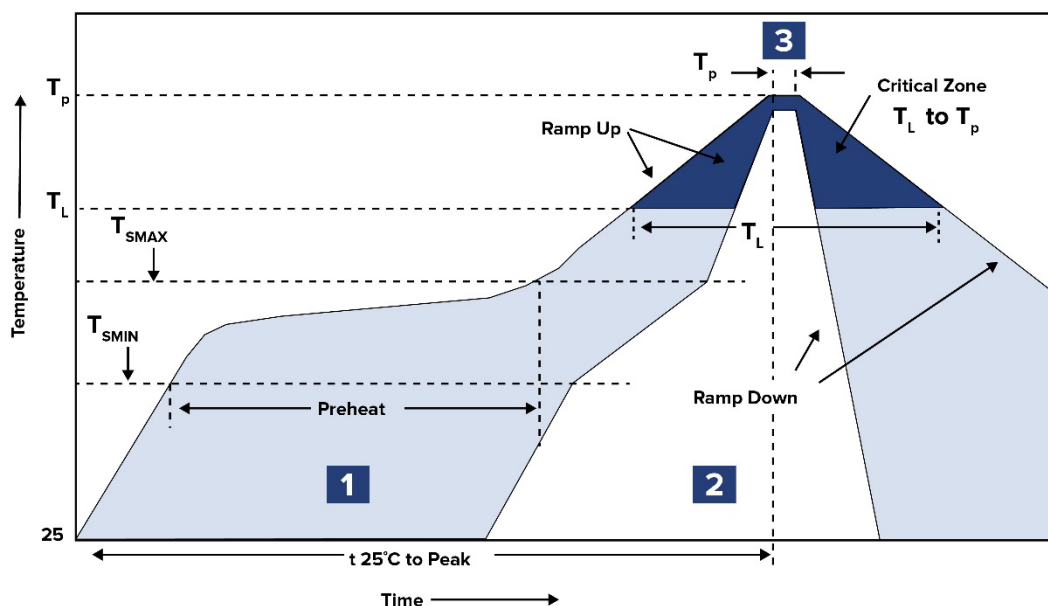


Check Inventory



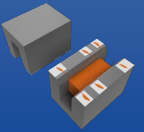
4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 260°C	10 sec. MAX

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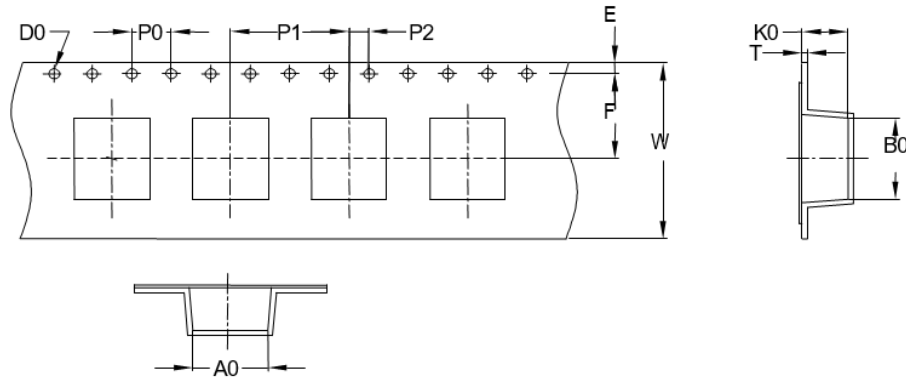
Check Inventory



4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

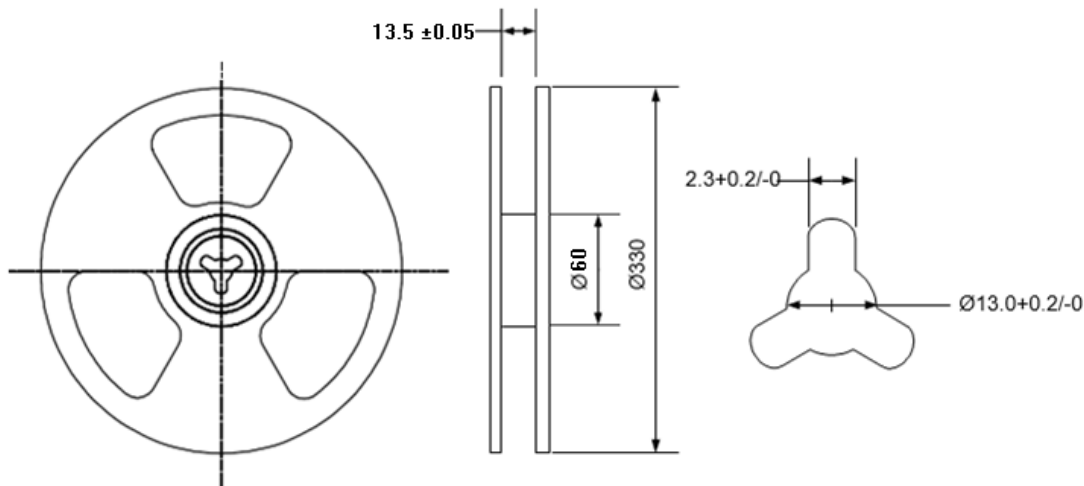
Packaging

Tape and Reel: 2,000 pcs/reel



A0	B0	W	E	F	P0	P1	P2	D0	T	K0
3.60	4.90	12.00	1.75	5.50 ±0.05	4.00 ±0.05	8.00	2.00	1.50 ±0.05	0.40 ±0.05	3.0

Tolerance: ±0.1 (unless otherwise noted)



Dimensions unit: mm

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS), which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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