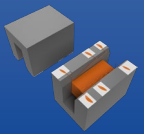


10G Base-T, SMD PoE LAN Isolation Transformer



ALANC010G

Request Samples



Check Inventory



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 802.3ab and 802.3an standards
- Compatible with 10G 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)	Insertion Loss (dB Max)	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 ~200 MHz	400 ~500 MHz	1 sec.	1-2 : 4-5
ALANC010G1-EADT	120	25	1.5	1.5	300	-1.5	-2.0	1500	1CT:1CT
ALANC010G2-EADT	120	25	1.2	1.2	600	-1.5	-2.0	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.

ALANC010G series is RoHS/ RoHS II Compliant and Pb free.

Moisture Sensitivity Level (MSL) – Level 1.

Applicable Standards: IEEE 802.3ab and 802.3an.

Operating Temperature: -40°C ~ +85°C.

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

ALANC002G1-EADT

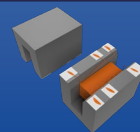


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10G Base-T, SMD PoE LAN Isolation Transformer



ALANC010G

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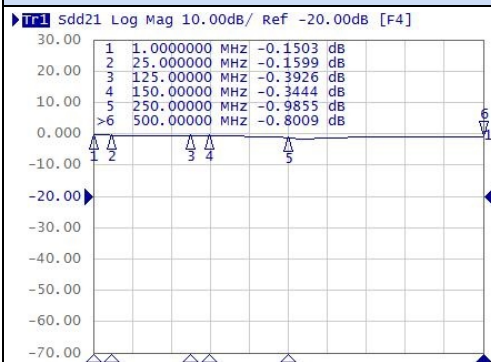
Check Inventory



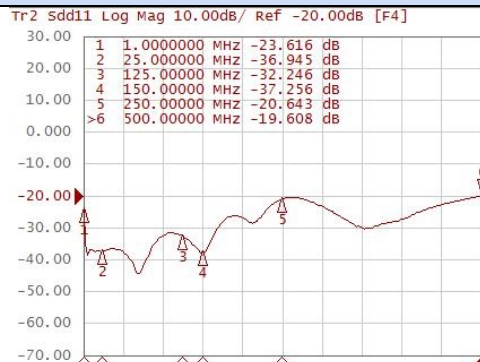
4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

ALANC002G1-EADT

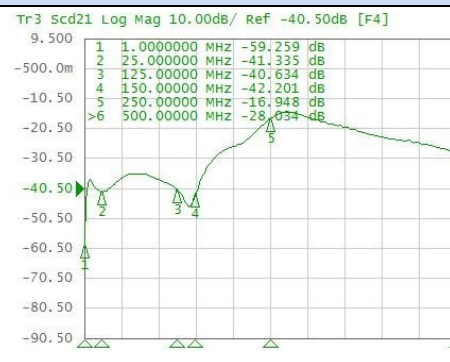
Insertion Loss (dB)



Return Loss (dB)



DCMR (dB)



Part Identification

ALANC010G

Power Over Ethernet
PoE: 1
PoE+: 2

Package
E: 6-pin

Schematic
A: Standard

Operating Temp.
D: -40°C ~ +85°C

Packaging
T: Tape & reel
B: Bulk

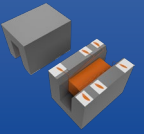


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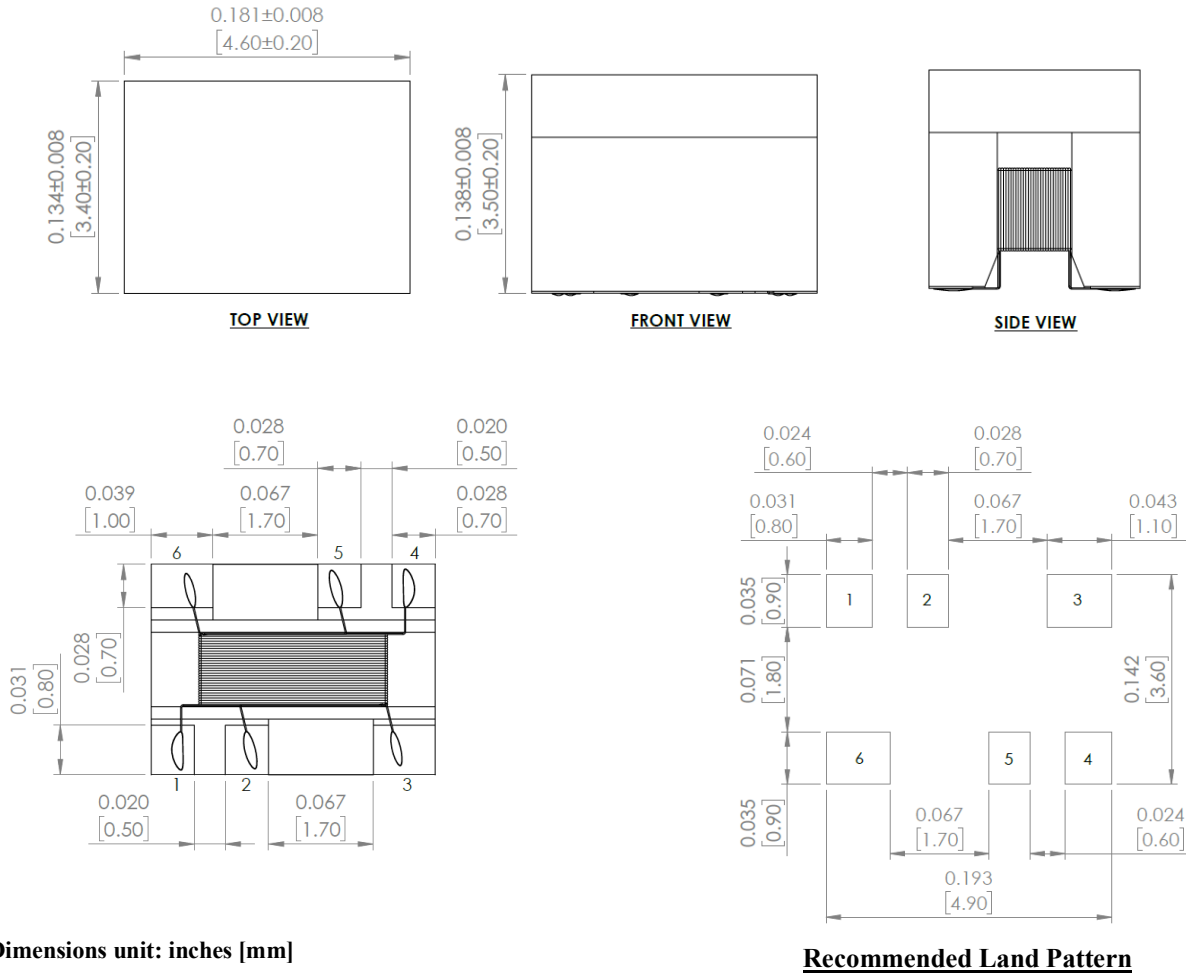
Check Inventory



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

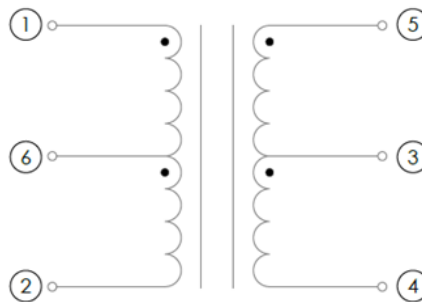
Mechanical Specifications

Package E: 6-pin

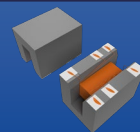


Schematic

A: Standard



10G Base-T, SMD PoE LAN Isolation Transformer



ALANC010G

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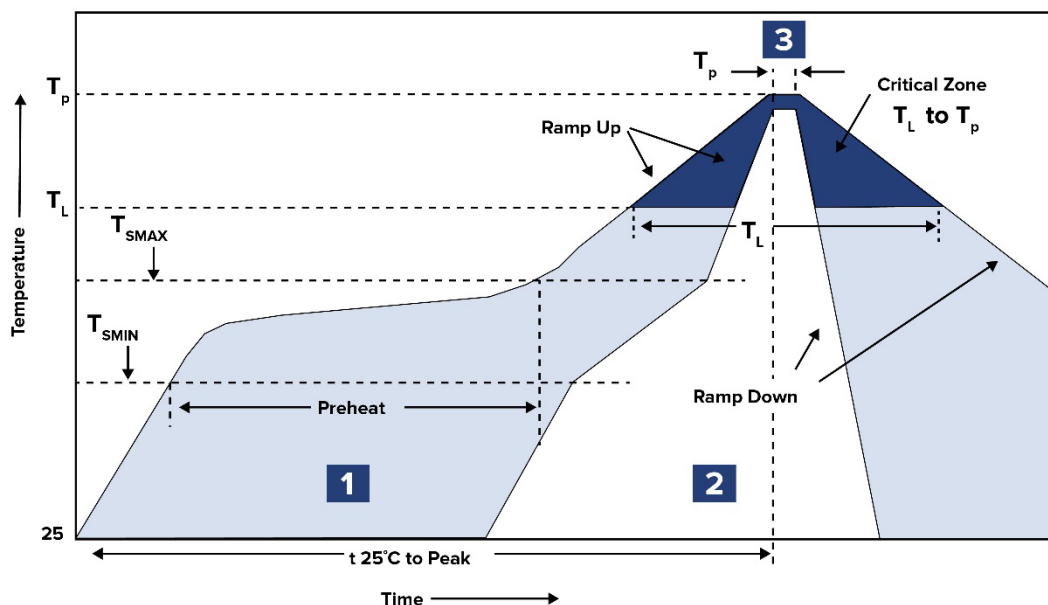


Check Inventory



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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