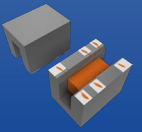


2.5G Base-T, SMD PoE LAN Isolation Transformer



ALANC002G

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 802.3bz standards
- Compatible with 2.5G 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, 0.1V	Pins 1-2	Pins 4-5	Pins 1-2-6 Pins 5-4-3	1 ~150 MHz	1 ~150 MHz	1 sec.	1-2 : 4-5
ALANC002G1-EADT	150	30	1.5	1.5	300	-1.5	-10	1500	1CT:1CT
ALANC002G2- EADT	150	30	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.

ALANC002G series is RoHS/ RoHS II Compliant and Pb free.

Moisture Sensitivity Level (MSL) – Level 1.

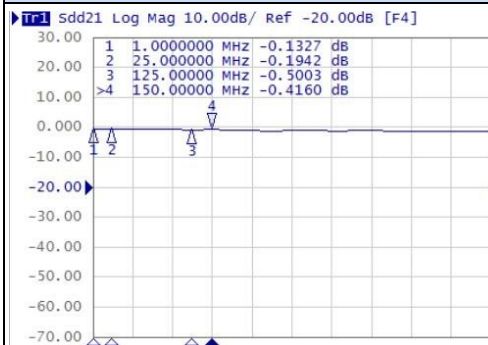
Applicable Standards: IEEE 802.3ab and 802.3bz.

Operating Temperature: -40°C ~ +85°C.

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

ALANC002G1-EADT

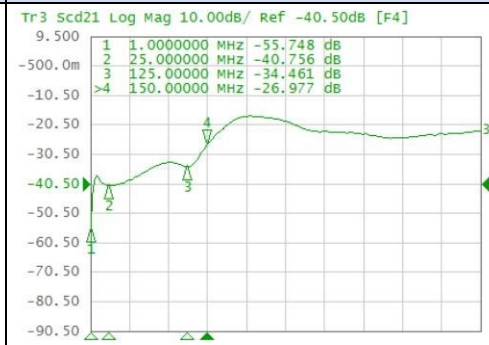
Insertion Loss (dB)



Return Loss (dB)



DCMR (dB)

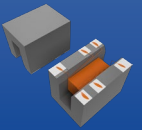


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Phone: 512-371-6159 Fax: 512-351-8858
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2.5G Base-T, SMD PoE LAN Isolation Transformer



ALANC002G

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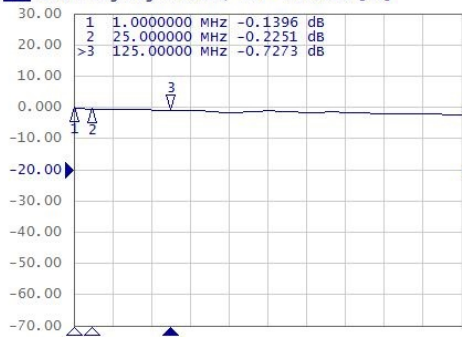


4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

ALANC002G2-EADT

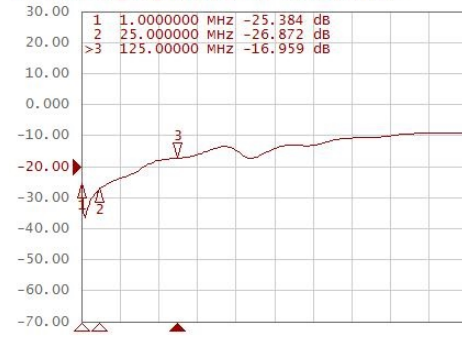
Insertion Loss (dB)

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



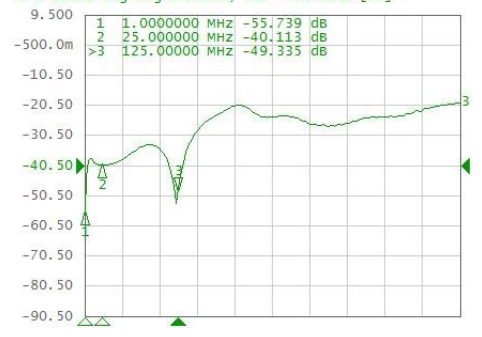
Return Loss (dB)

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



DCMR (dB)

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



Part Identification

ALANC002G -

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



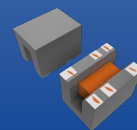
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4.6 x 3.4 x 3.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

2.5G Base-T, SMD PoE LAN Isolation Transformer



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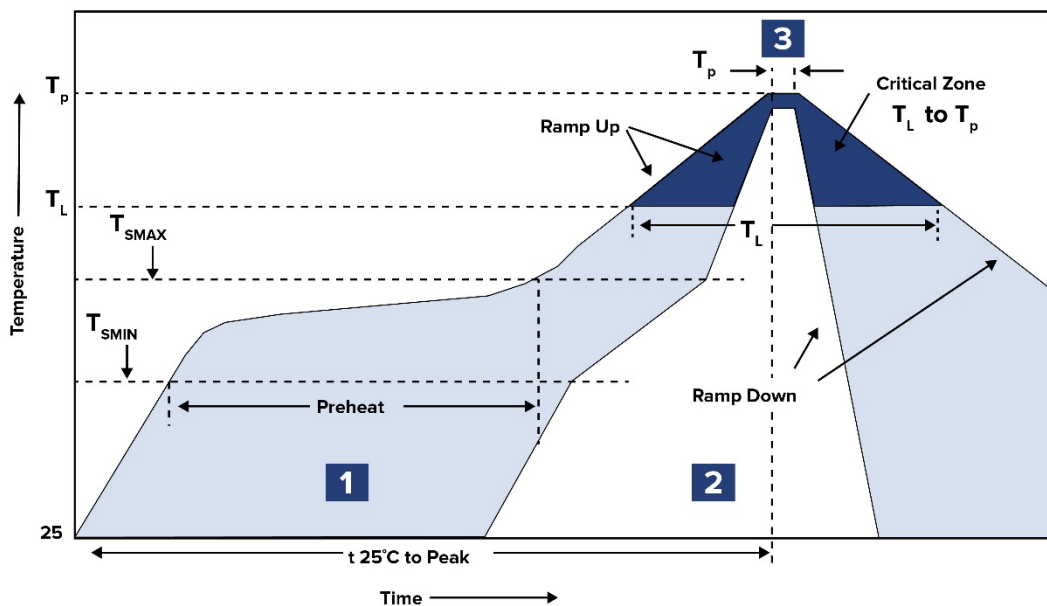


Check Inventory



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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