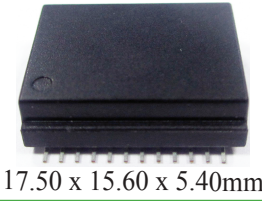


# 100/1000 Base-T Single Port LAN Transformer w/ PoE+, 3 Wires Extended Temperature



**ALAN-2302**

**RoHS/RoHS II Compliant**

➤ **FEATURES:**

- Meet IEEE802.3 specification
- Power Over Ethernet(PoE+)IEEE802.3at compliant performance
- Extended Temperature (-40°C - +85°C)
- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

➤ **APPLICATIONS:**

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 1000Base-T Ethernet-LAN
- PoE+ Capabilities
- Symmetrical Tx & RX channels for Auto MDI/MDIX capability
- Provides signal conditioning, EMI suppression and signal isolation.
- Hubs/Switches/Routers/Servers/NIC Cards

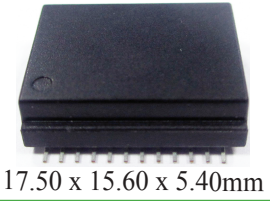
➤ **STANDARD SPECIFICATIONS:**

**Key Electrical Specifications @ 25°C**

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 5%)		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	0.1MHz
			-1.0		100MHz
			-2.0		125MHz
Return Loss	-18			dB	30MHz
	-14.4				40MHz
	-12				80MHz
	-10				100MHz
Cross Talk		-41		dB	30MHz
		-37			60MHz
		-33			100MHz
Differential to Common Mode Rejection	-30			dB	1-100MHz
Common Mode Rejection	-30			dB	1-100MHz
PoE Current Capacity			750	mA	
Hi-Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				



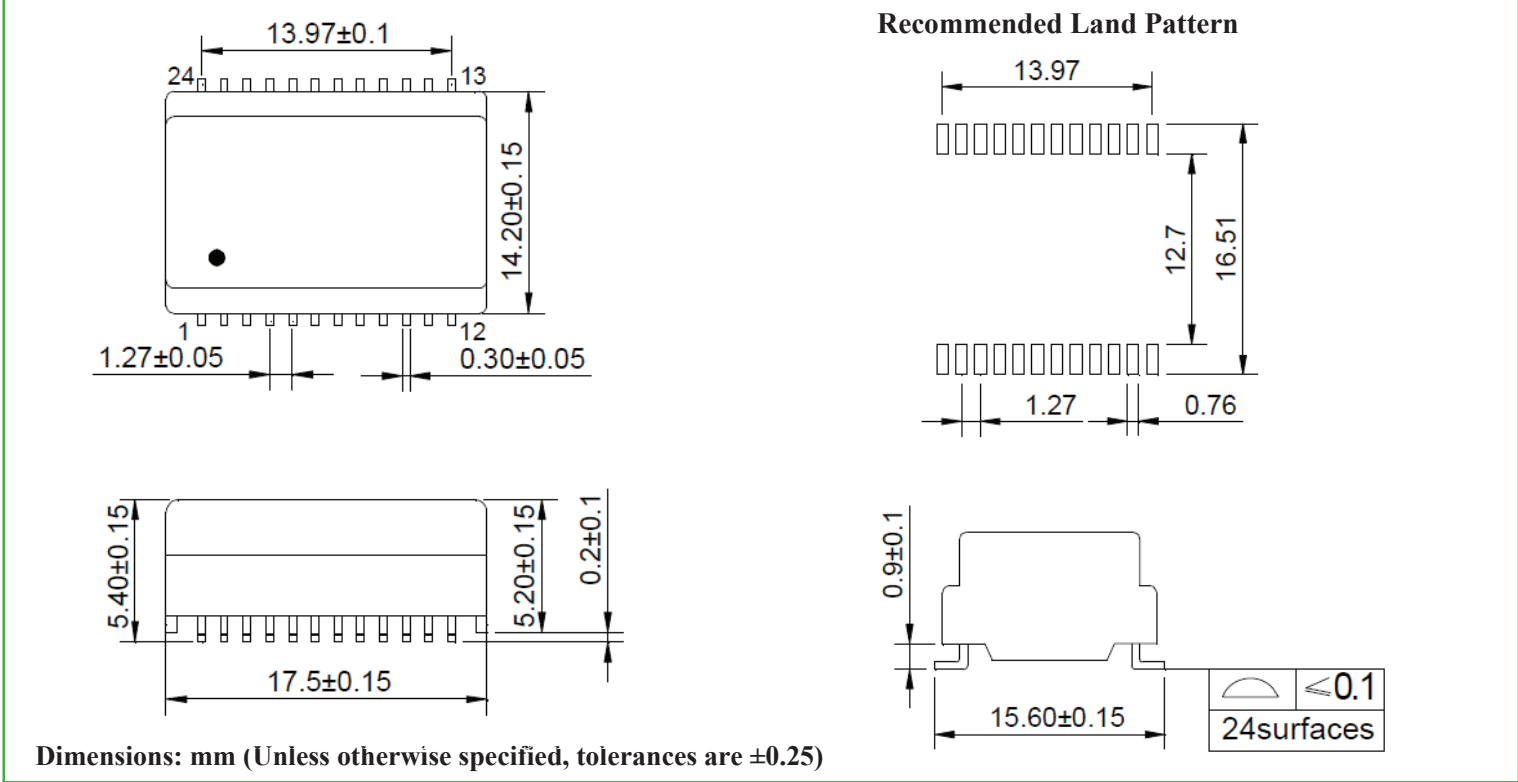
# 100/1000 Base-T Single Port LAN Transformer w/ PoE+, 3 Wires Extended Temperature



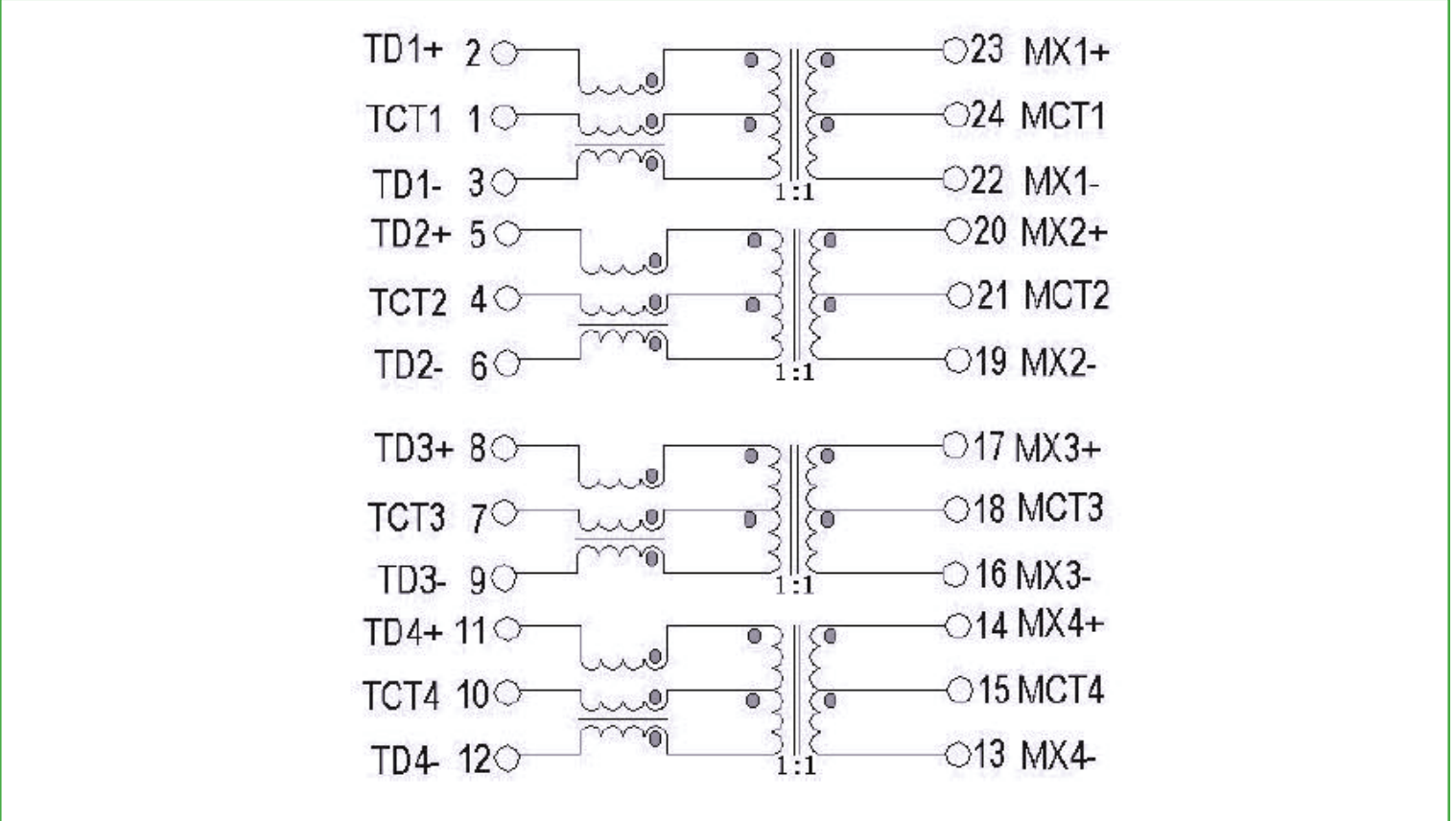
**ALAN-2302**

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## OUTLINE DIMENSIONS:



## SCHEMATICS

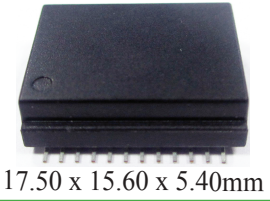


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# 100/1000 Base-T Single Port LAN Transformer w/ PoE+, 3 Wires Extended Temperature

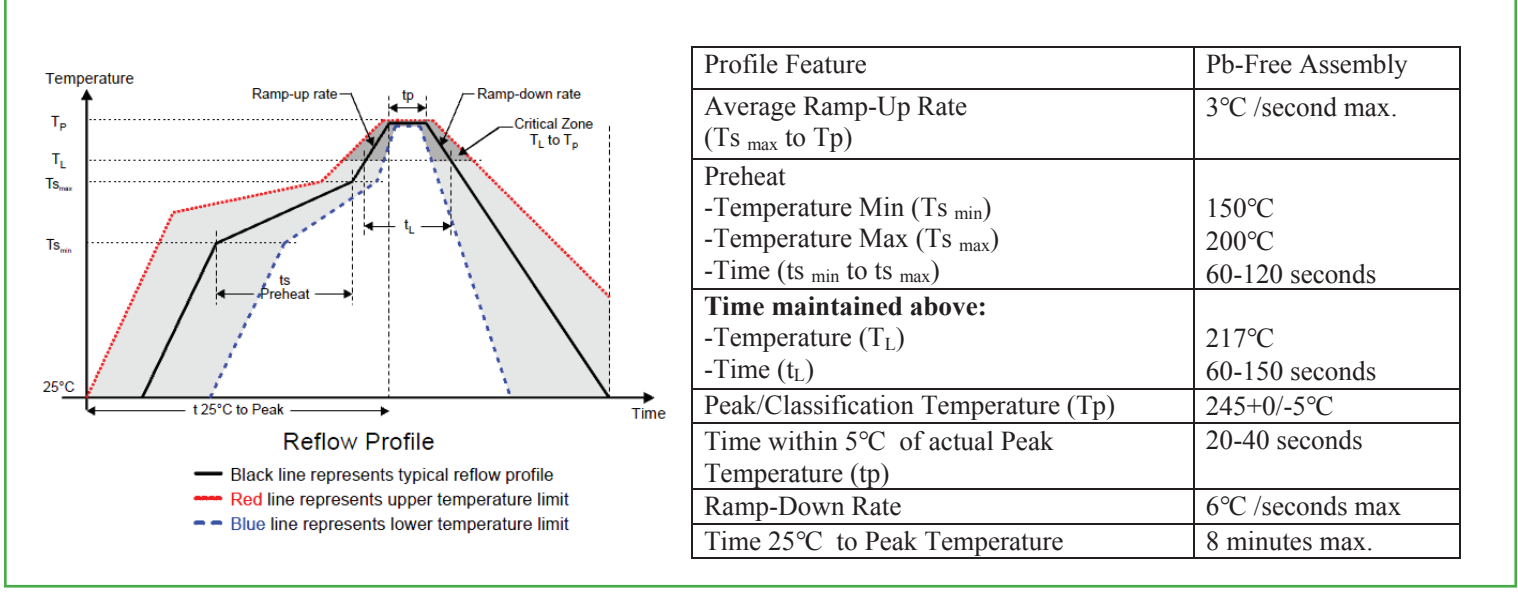


**ALAN-2302**

**RoHS/RoHS II Compliant**

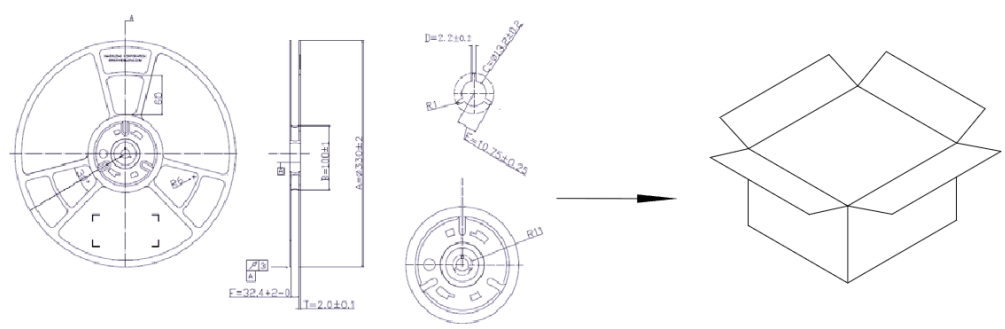
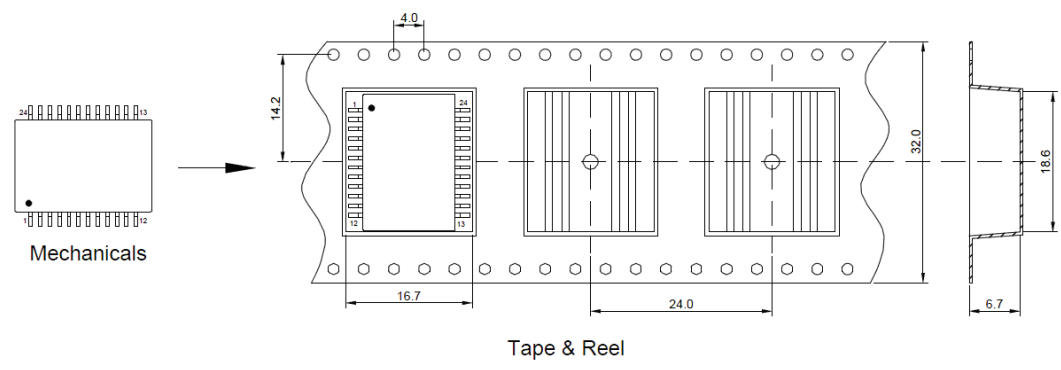
17.50 x 15.60 x 5.40mm

## REFLOW PROFILE:



## TAPE & REEL:

**Packing :** 400 pcs / reel  
**Weight** 2.1 grams / pcs



**Dimensions: mm**

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