

# Quad Port 10/100BASE-T LAN Transformer for Auto MDI/MDIX Extended Temperature

**ALAN-409**

**RoHS/RoHS II Compliant**



27.55 x 16.20 x 7.35mm

## FEATURES:

- Meet IEEE802.3 specification
- Extended Temperature (-40°C - +85°C)
- ROHS peak reflow temperature rating 240°C
- 1500Vrms Hi-Pot

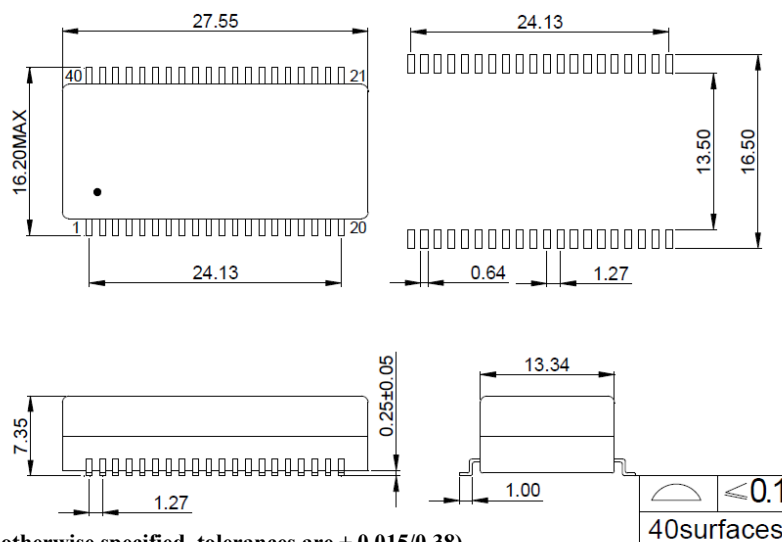
## APPLICATIONS:

- 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:

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			$\mu\text{H}$	100KHz/0.1V@8mA
Leakage Inductance (LL)			0.5	$\mu\text{H}$	100KHz/0.1V
Cw/w		30		pF	100KHz/0.1V
DC Resistance			1.2	$\Omega$	
Insertion Loss			-1.0	dB	0.1-100MHz
Return Loss	-18			dB	2-30MHz
	-14.4				40MHz
	-13.1				50MHz
	-12				60-80MHz
Cross Talk	-55			dB	1MHz
	-40				30MHz
	-35				60MHz
	-30				100MHz
Differential to Common Mode Rejection	-30			dB	1-100MHz
Common Mode Rejection	-35			dB	1-60MHz
	-25				60-200MHz
Hi-Pot	1500Vrms				

## OUTLINE DIMENSIONS:



Dimensions: inch/mm (Unless otherwise specified, tolerances are  $\pm 0.015/0.38$ )

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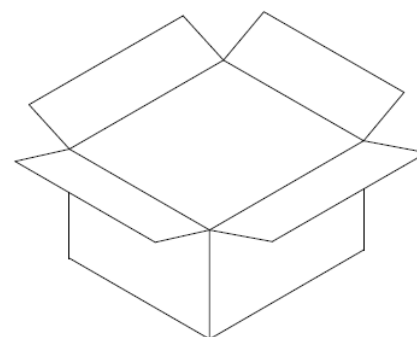
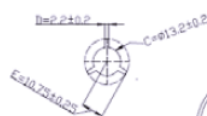
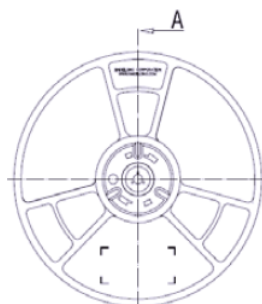
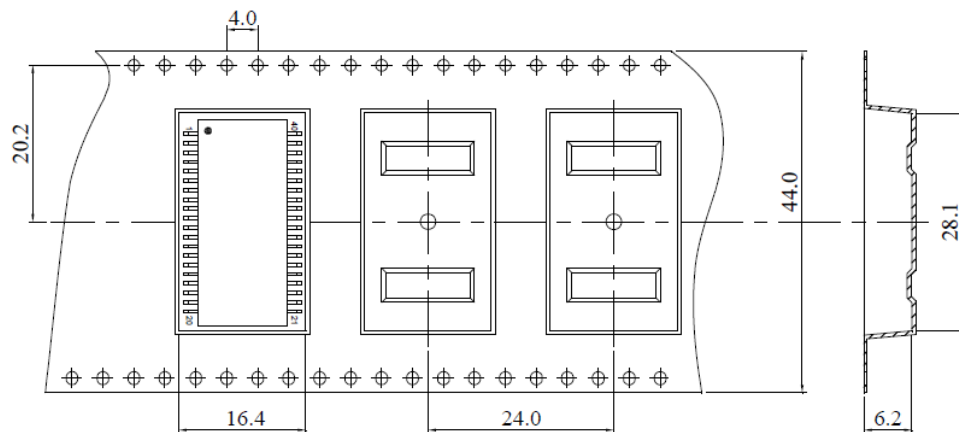
27.55 x 16.20 x 7.35mm

## TAPE & REEL:

Packing 400 pcs / reel  
Weight 2.7 grams / pcs



Mechanicals



Dimensions: mm

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