

# 10G Base-T LAN Transformer with PoE+

**ALAN-507**

RoHS/RoHS II Compliant



18.03 x 15.50 x 7.62 mm

## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		+70	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (±2%)		1CT: 1CT			(P2-3) : (P23-22) (P5-6) : (P20-19) (P8-9) : (P17-16) (P11-12) : (P14-13)
Inductance (OCL)	62			uH	100KHz,0.1V
Insertion Loss			0.3	dB	1MHz
			1.0		2-300MHz
			1.5		400MHz
			2		500MHz
Return Loss	18			dB	1MHz
	20				2-300MHz
	15				400MHz
	12				500MHz
	9				600MHz
CMR		30		dB	50MHz
		27			100MHz
		24			200MHz
		22			300MHz
		21			400MHz
		20			500MHz
CDMR		48		dB	50MHz
		42			100MHz
		36			200MHz
		33			300MHz
		28			400MHz
		28			500MHz
PoE applications current capability			1	A	For Each of the 4 center taps. Designed to support 57V, 100W applications when using all 4 channels.
High Pot	1500Vrms/1mA/1Sec				
Polarity	P2-23, P5-20, P8-17, P11-14 are in phase				

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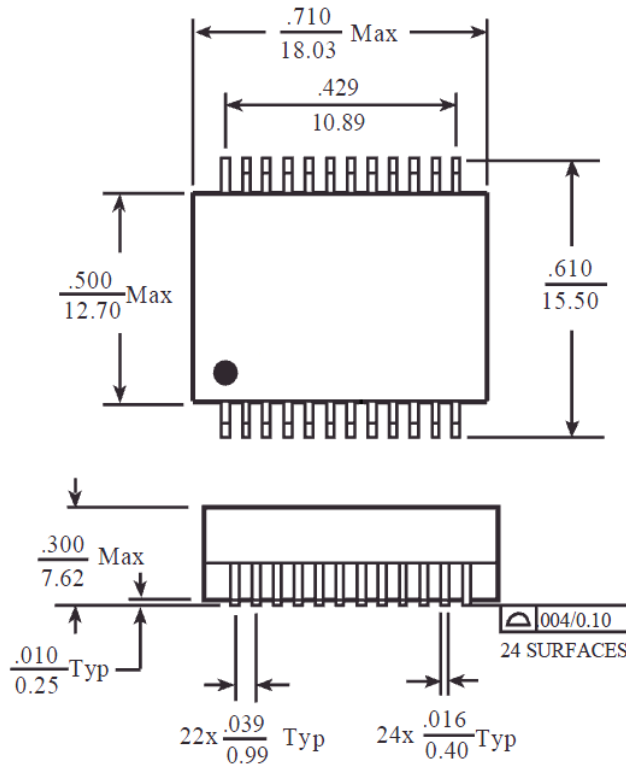
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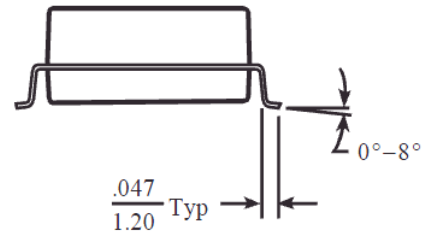


18.03 x 15.50 x 7.62 mm

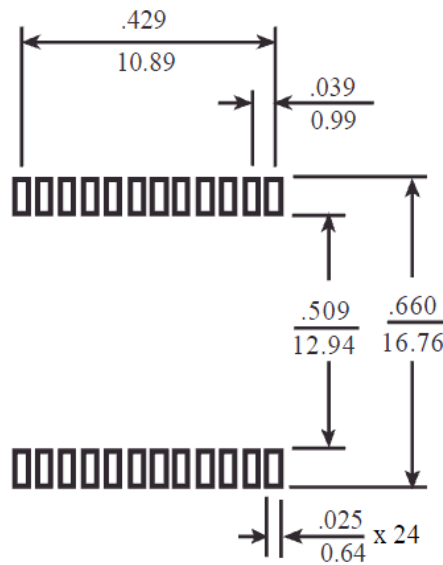
## OUTLINE DRAWING:



Package type:  
Transfer Molding



### Recommended Land Pattern



Dimensions: inch/mm (Unless otherwise specified, tolerances are ± 0.10/0.25)

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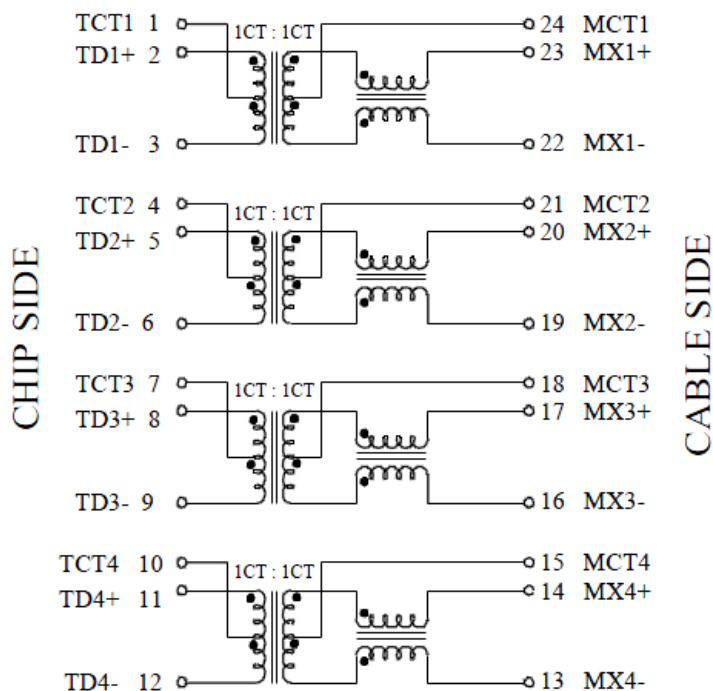
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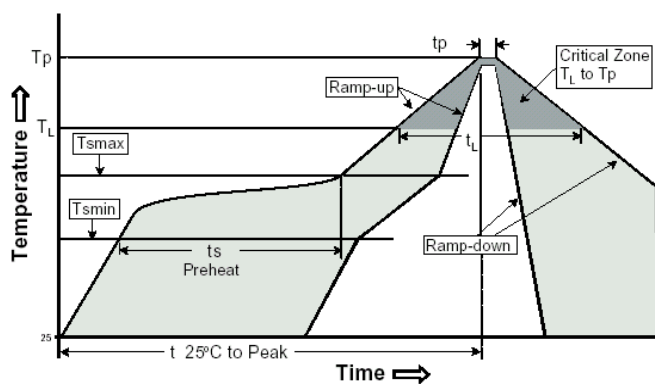


18.03 x 15.50 x 7.62 mm

## SCHEMATICS:



## REFLOW PROFILE:



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts <sub>max</sub> to Tp)	3°C /second max.
Preheat	
-Temperature Min (Ts <sub>min</sub> )	150°C
-Temperature Max (Ts <sub>max</sub> )	200°C
-Time (ts <sub>min</sub> to ts <sub>max</sub> )	60-180 seconds
<b>Time maintained above:</b>	
-Temperature (T <sub>L</sub> )	217°C
-Time (t <sub>L</sub> )	60-150 seconds
Peak/Classification Temperature (Tp)	245±5°C
Time within 5°C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6°C /seconds max
Time 25°C to Peak Temperature	6 minutes max.

Packing 400pcs/reel

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