

12.70 x 9.40 x 5.70mm

FEATURES:

• Meet IEEE802.3 specification

ALAN-2202

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

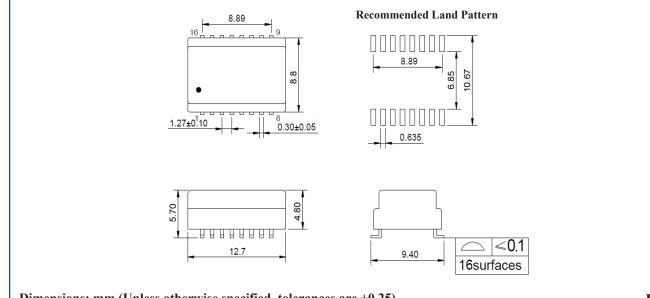
RoHS/RoHS II Compliant

> APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 10/100Base-T Ethernet-LAN
- VoIP/PoE+ Capabilities
- Symmetrical Tx & RX channles for Auto MDI/MDIX capability
- Provides signal conditioning, EMI suppression and signal isolation.
- Hubs/Switches/Routers/Servers/NIC Cards

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Parameters	Minimum	Typical	Maximum	Units	Notes	
Operating Temperature	-40		+85	°C		
Storage Temperature	-40		+85	°C		
Turn Ratio (± 5%)		1CT:1CT				
Inductance (OCL)	350			μΗ	100KHz/0.1V@8mA	
Leakage Inductance (LL)			0.5	μΗ	100KHz/0.1V	
Cw/w			30	pF	100KHz/0.1V	
DC Resistance			1.2	Ω		
Insertion Loss			-1.1	dB	1-100MHz	
Return Loss	-18			dB	1-30MHz	
	-16				40MHz	
	-13				50MHz	
	-12				60-80MHz	
Cross Talk		-30		dB	1-100MHz	
Differential to Common Mode Rejection	-30			dB	1-100MHz	
Common Mode Rejection	-30			dB	1-100MHz	
PoE Current Capacity			720	mA		
Hi-Pot	1500Vrms					

OUTLINE DIMENSIONS:



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

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REVISED: 07-8-20

Dimension: mm

ABRACON IS ISO9001-2015 CERTIFIED

> STANDARD SPECIFICATIONS:

Kev Electrical Specifications @ 25°C

10/100 Base-T Single Port LAN Transformer w/ PoE+ Extended Temperature 3 Cores Solution

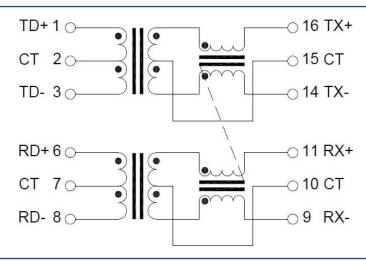


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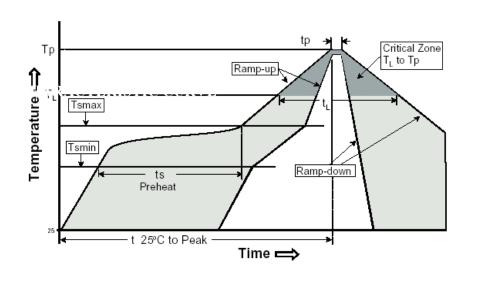
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▷ SCHEMATICS



REFLOW PROFILE:



Profile Feature	Pb-Free Assembly		
Average Ramp-Up Rate	3°C /second max.		
(Ts _{max} to Tp)			
Preheat			
-Temperature Min (Ts min)	150°C		
-Temperature Max (Ts max)	200°C		
-Time (ts $_{min}$ to ts $_{max}$)	60-120 seconds		
Time maintained above:			
-Temperature (T _L)	217°C		
-Time (t_L)	60-150 seconds		
Peak/Classification Temperature (Tp)	245±5°C		
Time within 5°C of actual Peak	20-40 seconds		
Temperature (tp)			
Ramp-Down Rate	6°C /seconds max		
Time 25°C to Peak Temperature	8 minutes max.		



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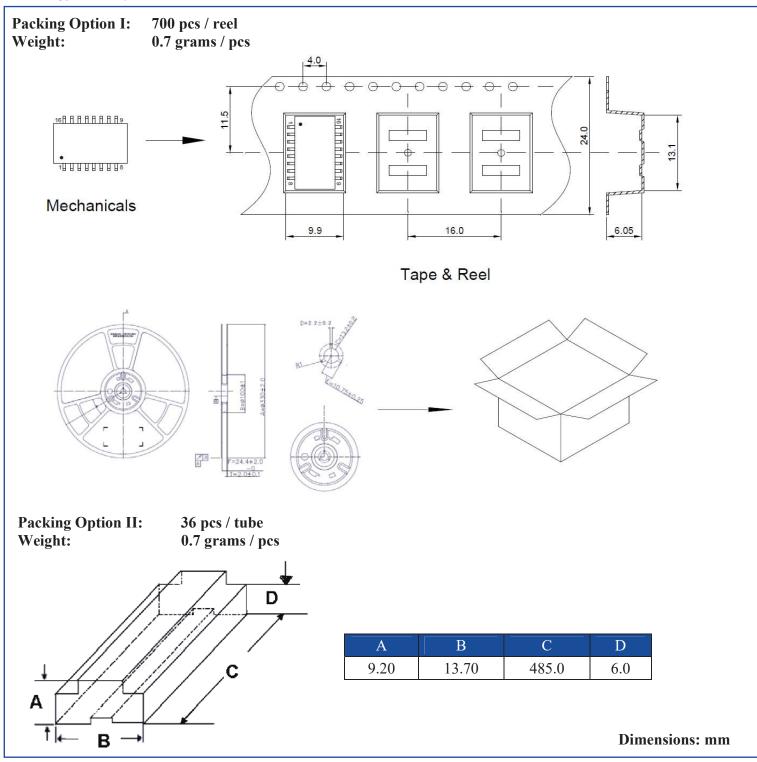
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▷ TAPE & REEL:

ALAN-2202



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