

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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10/100 Base-T Single Port LAN Transformer

w/ PoE Extended Temperature

RoHS/RoHS II Compliant



ALAN-508

> 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

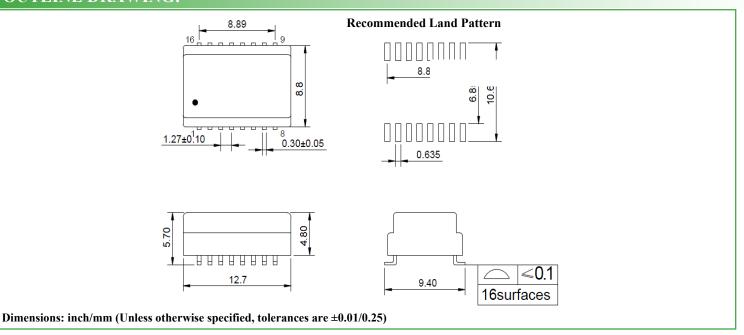
> APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 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

> STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	'
Storage Temperature	-40		+85	°C	
Turn Ratio (± 2%)		1CT:1CT			
Inductance (OCL)	350			μН	100KHz/0.1V@8mA
Leakage Inductance (LL)			0.5	μН	100KHz/0.1V
Cw/w			30	pF	100KHz/0.1V
DC Resistance			1.2	Ω	
Insertion Loss			-1.1	dB	0.1-100MHz
Return Loss		-18		dB	30MHz
		-14			60MHz
		-11.5			80MHz
Cross Talk		-45		dB	30MHz
		-40			60MHz
		-35			100MHz
Differential to Common Mode Rejection		-42		dB	30MHz
		-37			50MHz
		-33			100MHz
Common Mode Rejection	-30			dB	1-100MHz
PoE Current Capacity			350	mA	
Hi-Pot		1500Vrms			

OUTLINE DRAWING:



ABRACON IS ISO9001:2008 CERTIFIED



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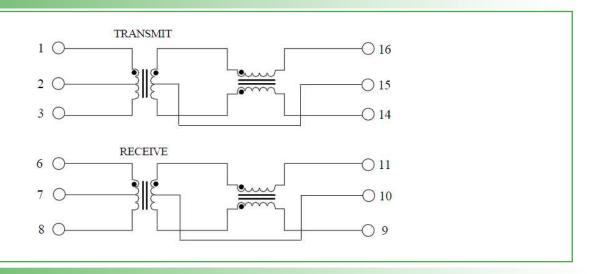
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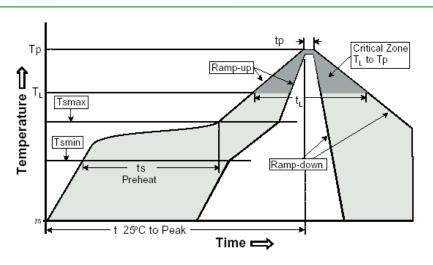
RoHS/RoHS II Compliant



SCHEMATIC:



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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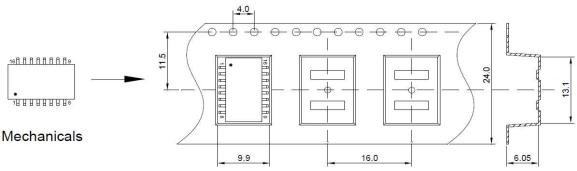
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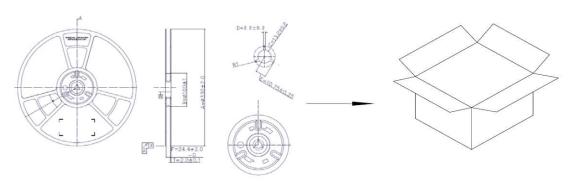


TAPE & REEL:

Packing Option I: 700 pcs / reel
Weight: 0.7 grams / pcs

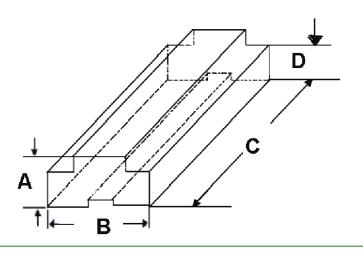


Tape & Reel



Packing Option II: Weight:

36 pcs / tube 0.7 grams / pcs



A	В	C	D
9.20	13.70	485.0	6.0

Dimensions: mm

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



