100/1000 Base-T Single Port LAN Transformer

ALAN-2341

RoHS/RoHS II Compliant



FEATURES:

- Meet IEEE802.3 specification
- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

APPLICATIONS:

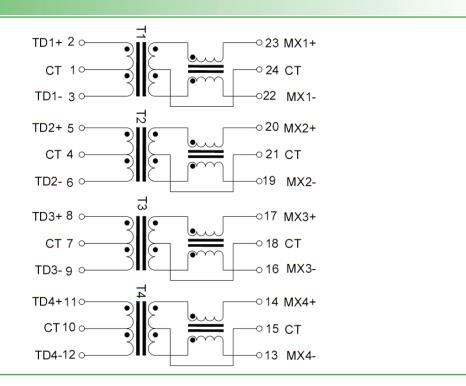
- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 100/1000Base-T Ethernet-LAN
- VoIP
- Symmetrical Tx & Rx channles for Auto MDI/MDIX capability
- Provides signal conditioning, EMI suppression and signal isolation.
- Hubs/Switches/Routers/Servers/NIC Cards

> STANDARD SPECIFICATIONS:

Key Electrical Specifications @ 25°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	0		+70	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 5%)		1CT:1CT			
Inductance (OCL)	350			μН	100KHz/0.1V@8mA
Insertion Loss			-1.0	dB	1-100MHz
Return Loss	-18				1-30MHz
	-12			dB	30-80MHz
	-10				100MHz
Cross Talk		-45		dB	1-30MHz
		-40			60MHz
		-35			80MHz
CMR		-42		dB	1-30MHz
		-40			60MHz
		-35			80MHz
Hi-Pot		1500Vrms			

> SCHEMATICS







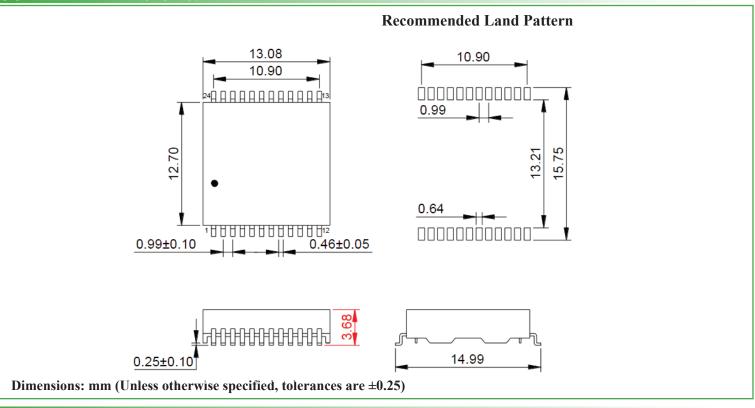
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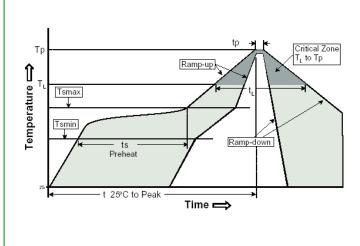
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OUTLINE DIMENSIONS:



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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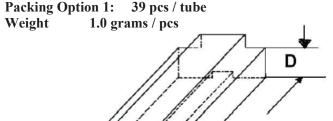
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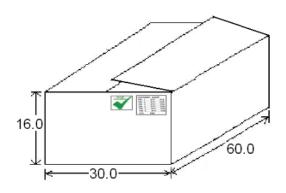
► TAPE & REEL:



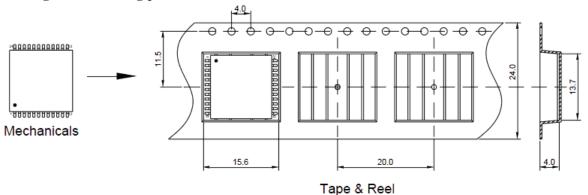
C B D UNIT:mm

Size(mm)						
A	В	C	D			
10.38	16.33	530	7.30			

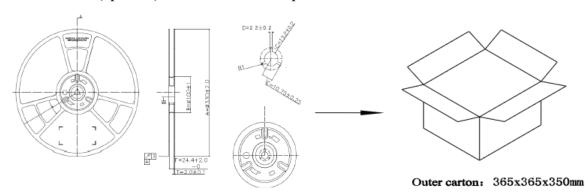
Outer Carton Unit (optional): 192 tubes / 7488 pcs / box



Packing Option 2: 800 pcs / Tape & Reel Carton Weight 13.5kg per carton



Outer Carton Unit (optional): 10 T&R / 8000 pcs / box



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.



