100/1000 Base-T Single Port LAN Transformer w/ Extended Temperature, Auto X'FMR



RoHS/RoHS II Compliant

FEATURES:

• Meet IEEE802.3 specification

ALAN-1002

- Extended Temperature (-40°C +85°C)
- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

Kons/Kons n Compi

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

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 5%)		1CT:1			
Inductance (OCL)	350			μH	100KHz/0.1V@8mA
Leakage Inductance (LL)			0.5	μH	100KHz/0.1V
Cw/w			30	pF	100KHz/0.1V
DC Resistance			1.5	Ω	
Insertion Loss			-1.2	dB	0.3-100MHz
Return Loss	-18			dB	1-30MHz
	-14.4				40MHz
	-13.1				50MHz
	-12				60-80MHz
	-10				100MHz
Cross Talk		-45		dB	30MHz
		-40			60MHz
		-35			100MHz
Differential to Common Mode Rejection	-43			dB	30MHz
	-37				80MHz
	-33				100MHz
Common Mode Rejection	-30			dB	1-100MHz
Hi-Pot	1500Vrms				

STANDARD SPECIFICATIONS:

Key Electrical Specifications @ 25°C





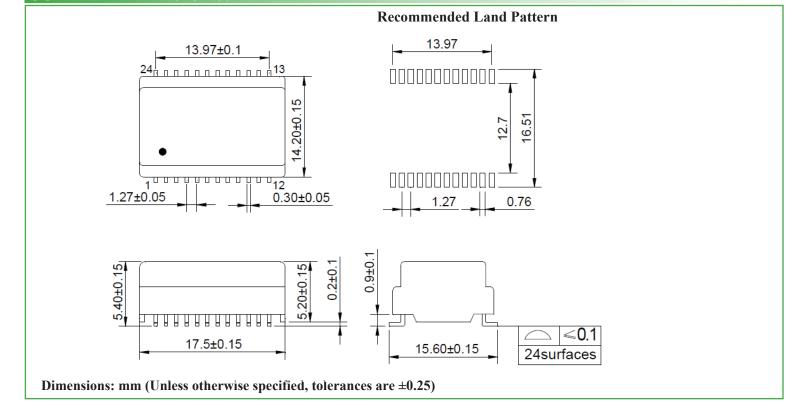
100/1000 Base-T Single Port LAN Transformer w/ Extended Temperature, Auto X'FMR



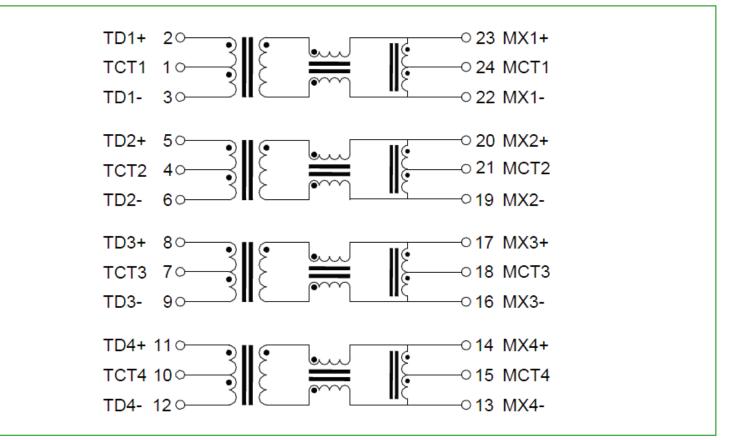
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OUTLINE DIMENSIONS:



SCHEMATICS



ABRACON IS ISO 9001:2008 CERTIFIED



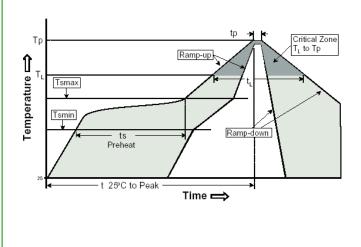
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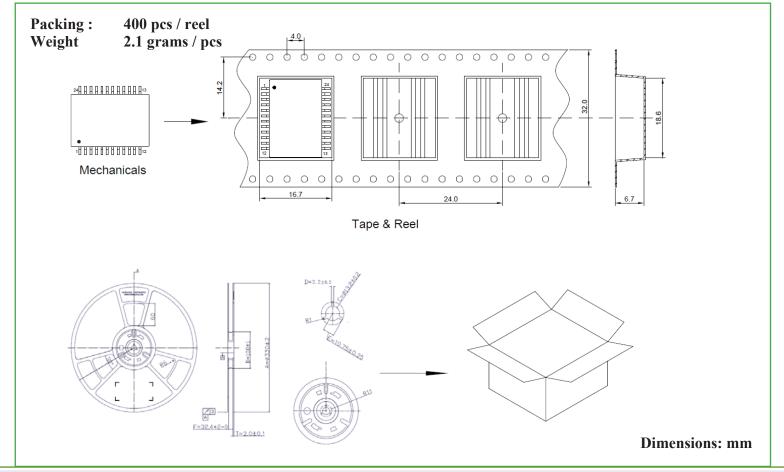
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REFLOW PROFILE:



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.		

TAPE & REEL:



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