10/100Base-T Single Port LAN Transformer

Extended Temperature

APT-106

RoHS/RoHS II Compliant



> FEATURES:

- Meet IEEE802.3 specification
- Extended Temperature (-40°C +85°C)
- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

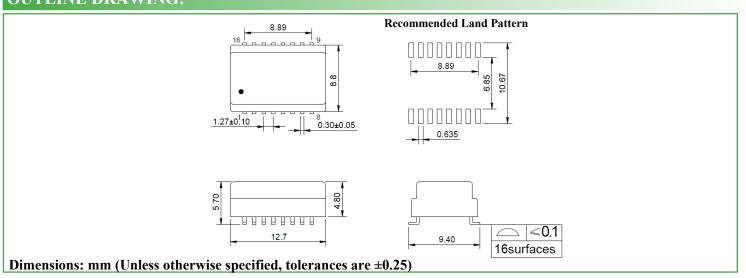
> APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 10/100Base-T Ethernet-LAN
- VoIP
- 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	
Inductance	350			μН	100KHz,/0.1V@ 8mA
Leakage Inductance			0.4	μН	100KHz/0.1V
Cw/w			25	pF	100KHz/0.1V
DC Resistance			1.5	Ω	
Insertion Loss			-1.1	dB	0.3-100MHz
Return Loss		-20		dB	30MHz
		-14			60MHz
		-11.5			80MHz
Cross Talk	-45			dB	30MHz
	-40				60MHz
	-27				100MHz
Differential to Common Mode Rejection	-42			dB	30MHz
	-37				50MHz
	-33				100MHz
Common Mode Rejection	-30			dB	1-100MHz
Turns Ratio (± 2%)	1CT: 1CT				
Hi-Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				

OUTLINE DRAWING:







10/100Base-T Single Port LAN Transformer

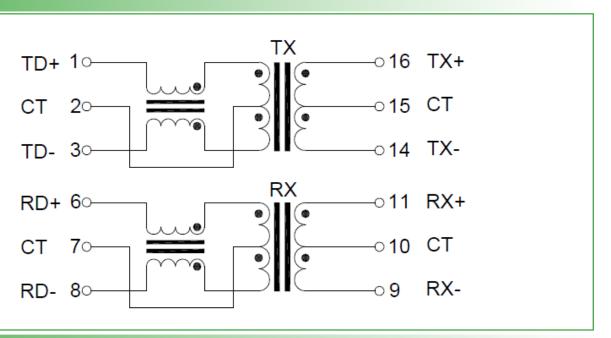
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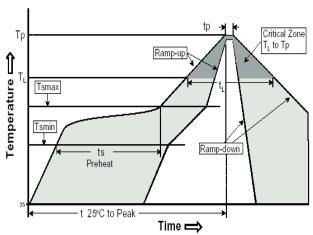
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SCHEMATIC:



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.	

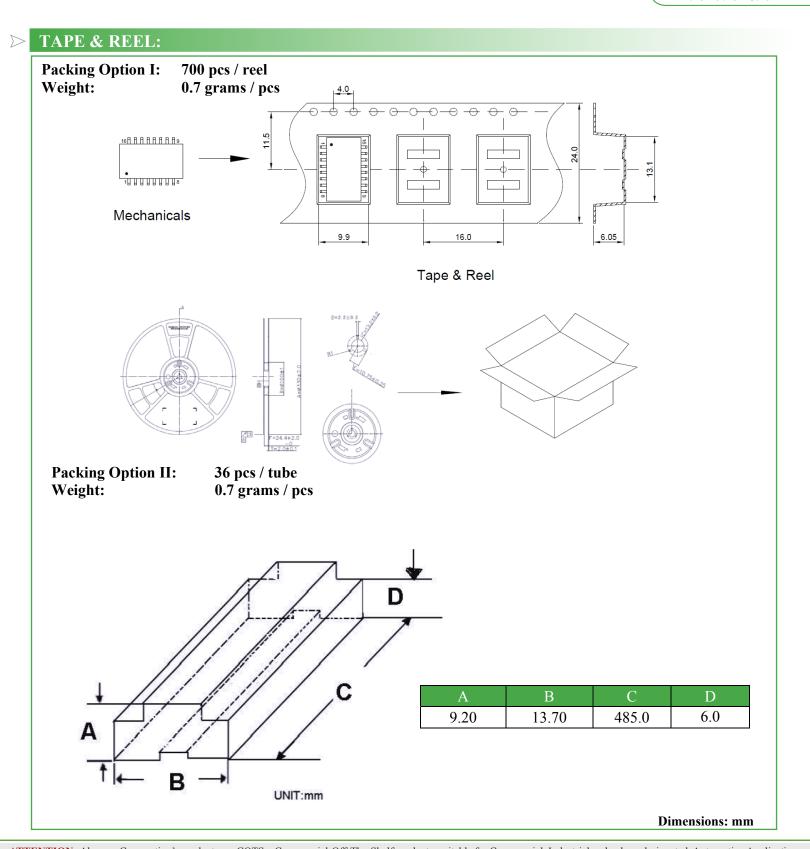
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