**Extended Temperature** 

## APT-106

#### **FEATURES:**

- Meet IEEE802.3 specification
- Extended Temperature (-40°C +85°C)

**STANDARD SPECIFICATIONS** 

- ROHS peak reflow temperature rating 245°C
- 1500Vrms Hi-Pot

**RoHS/RoHS II Compliant** 

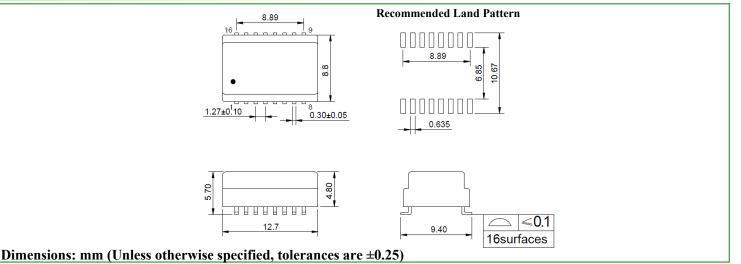
12.70 x 9.40 x 5.70mm

## **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

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Inductance	350			μΗ	100KHz,/0.1V@ 8mA
Leakage Inductance			0.4	μΗ	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:**



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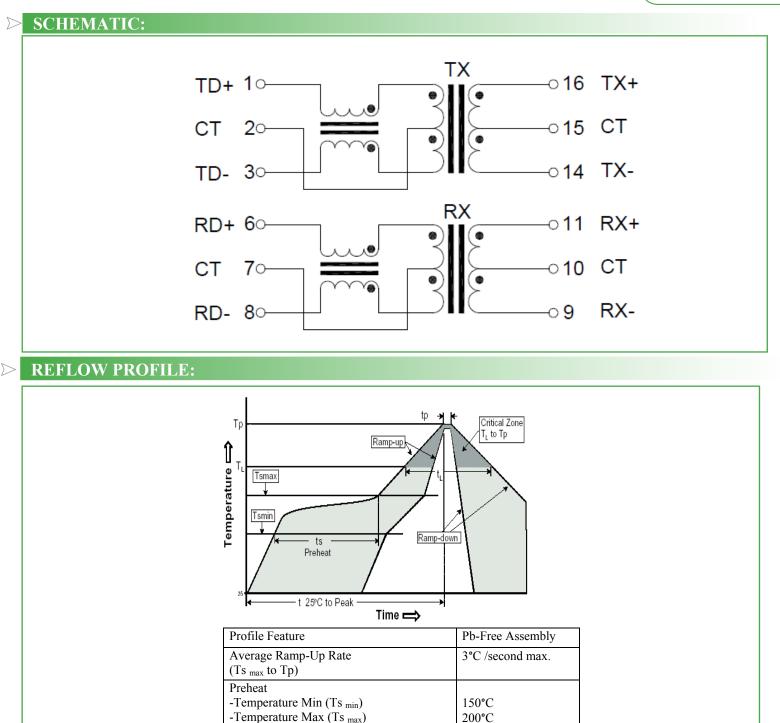
**APT-106** 

**Extended Temperature** 

**RoHS/RoHS II Compliant** 



12.70 x 9.40 x 5.70mm



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-Time (ts  $_{min}$  to ts  $_{max}$ )

-Time (t<sub>L</sub>)

Temperature (tp) Ramp-Down Rate

**Time maintained above:** -Temperature (T<sub>L</sub>)

Peak/Classification Temperature (Tp)

Time within 5°C of actual Peak

Time 25°C to Peak Temperature

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60-120 seconds

60-150 seconds

6°C /seconds max 8 minutes max.

217°C

245±5°C 20-40 seconds

# **10/100Base-T Single Port LAN Transformer**

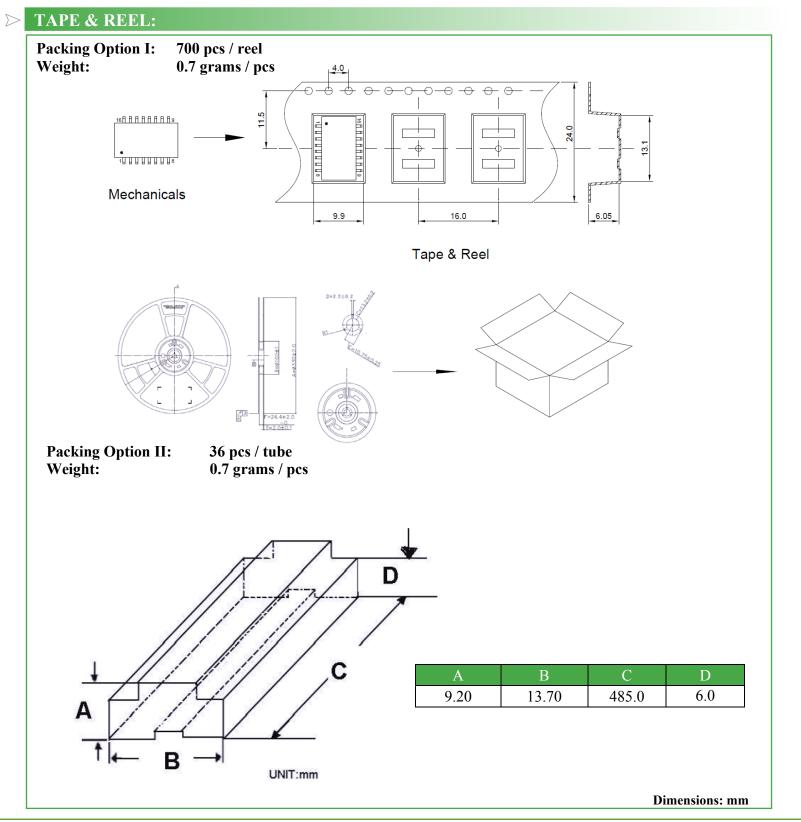
**Extended Temperature** 



12.70 x 9.40 x 5.70mm



#### **RoHS/RoHS II Compliant**



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