

# 10/100Base-T Single Port LAN Transformer

## Extended Temperature

**APT-106**

**RoHS/RoHS II Compliant**



12.70 x 9.40 x 5.70mm

### FEATURES:

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

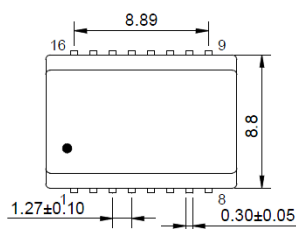
### APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Micrel, & Microsemi
- 10/100Base-T Ethernet-LAN
- VoIP
- Symmetrical Tx & RX channels for Auto MDI/MDIX capability
- Provides signal conditioning, EMI suppression and signal isolation.
- Hubs/Switches/Routers/Servers/NIC Cards

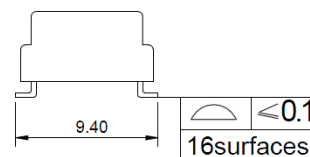
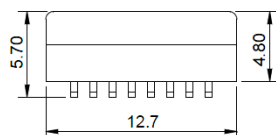
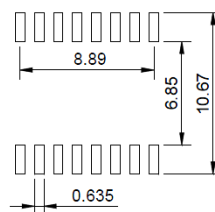
### STANDARD SPECIFICATIONS:

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



#### Recommended Land Pattern



**Dimensions: mm (Unless otherwise specified, tolerances are ±0.25)**

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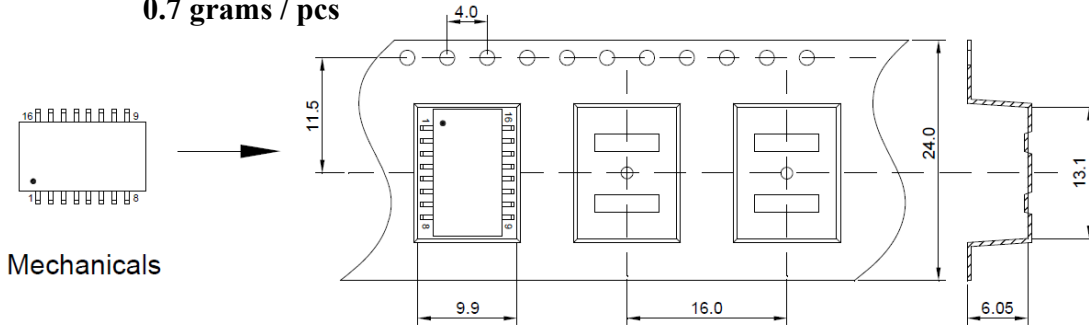
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APT-106

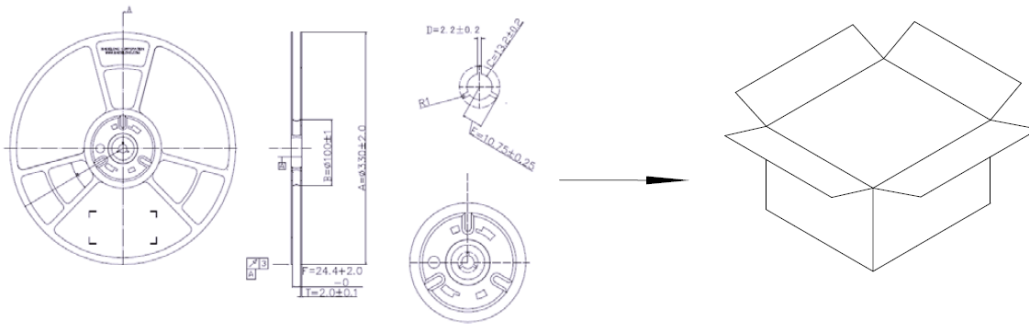
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### TAPE & REEL:

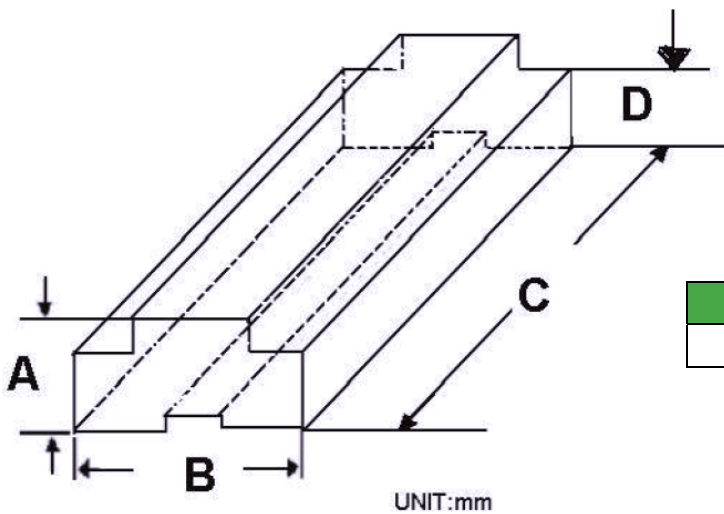
**Packing Option I:** 700 pcs / reel  
**Weight:** 0.7 grams / pcs



Tape & Reel



**Packing Option II:** 36 pcs / tube  
**Weight:** 0.7 grams / pcs



A	B	C	D
9.20	13.70	485.0	6.0

UNIT:mm

Dimensions: mm

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