Transformer Extended Temperature

ALAN-101

FEATURES:

- Meet IEEE802.3 specification
- Extended Temperature (-40°C +85°C)
- ROHS peak reflow temperature rating 230°C
- 1500Vrms Hi-Pot

RoHS/RoHS II Compliant



> 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

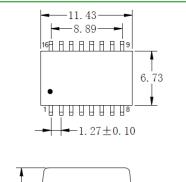
STANDARD SPECIFICATIONS:

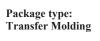
Key Electrical Specifications @ 25°C

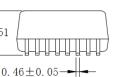
Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 2%)		1CT:1CT			
Inductance (OCL)	350			μH	100KHz/0.1V@8mA
Leakage Inductance (LL)			0.5	μH	100KHz/0.1V
Cw/w			30	pF	100KHz/0.1V
DC Resistance			1.2	Ω	
Insertion Loss			-1.1	dB	0.1-100MHz
Return Loss		-18		dB	30MHz
		-14			60MHz
		-11.5			80MHz
Cross Talk		-45			30MHz
		-40		dB	60MHz
		-35			100MHz
Differential to Common Mode Rejection		-42			30MHz
		-37		dB	50MHz
		-33			100MHz
Common Mode Rejection	-30			dB	1-100MHz
Hi-Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				

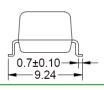
OUTLINE DRAWING:

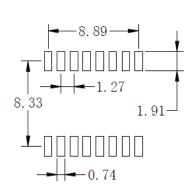
5.51











Recommended Land Pattern



2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 03.24.15** Ph. 949.546.8000 | Fax. 949.546.8001 Visit www.abracon.com for Terms and Conditions of Sale **Transformer Extended Temperature**

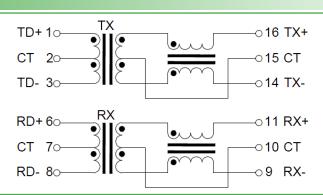


ALAN-101

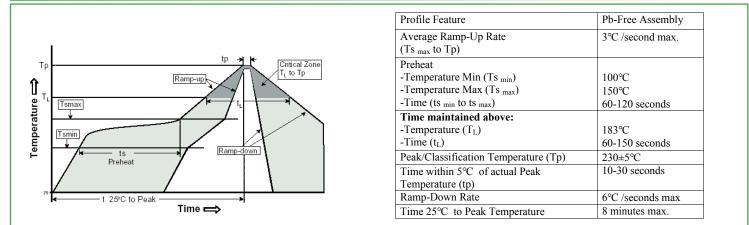
RoHS/RoHS II Compliant

11.43 x 9.24 x 5.51 mm

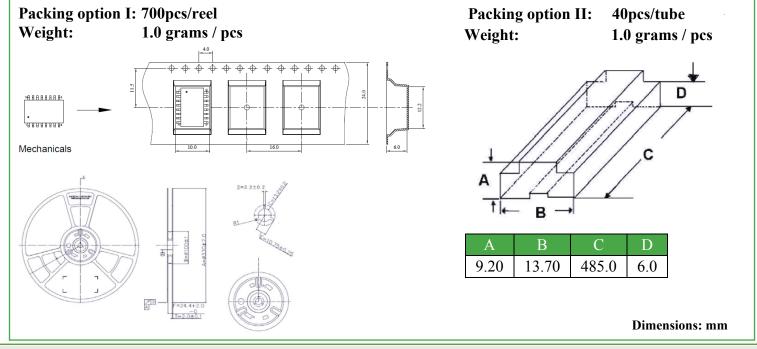




REFLOW PROFILE: >



TAPE & REEL:



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.





2 Faraday, Suite# B | Irvine | CA 92618 Revised: 03.24.15 Ph. 949.546.8000 | Fax. 949.546.8001 Visit www.abracon.com for Terms and Conditions of Sale