



TGL Low Profile 1000Base-T Single Port Interface Transformer Modules

Features

- Supports 1:1 Turns Ratio Transceivers for long haul Gigabit Ethernet 10/100/1000Base-T
- Meets requirements of IEEE 802.3ab standard for 1000Base-T
- Modules support 4 pairs of category 5 UTP cable
- Consistent and reliable coplanarity
- Manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Fully RoHS compliant and meets lead free reflow level J-STD-020C

Electrical Specifications @ 25°C

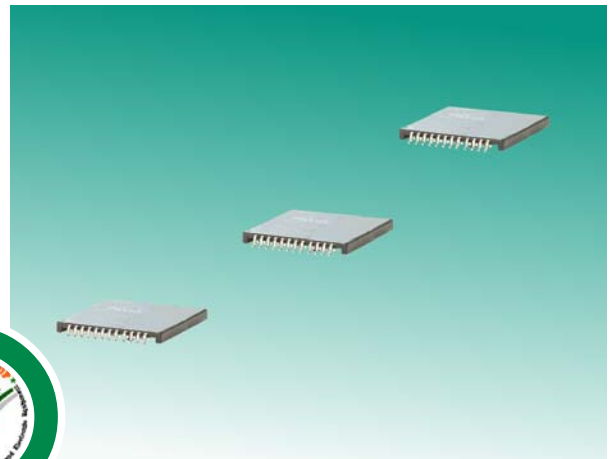
Inductance: 350μH minimum @ 100kHz, 100mV, 8mA

Minimum isolation voltage: 1500 Vrms

Operating Temperature Range: -40°C to +85°C

Storage Temperature: -40°C to +125°C

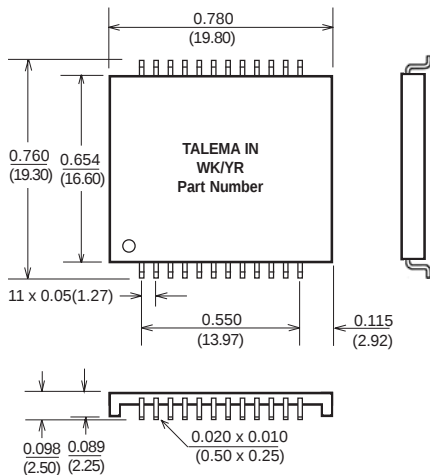
Standard Packing: Tape and Reel



TGL • Low Profile SMD 1000Base-T Single Port Isolation Transformer Modules

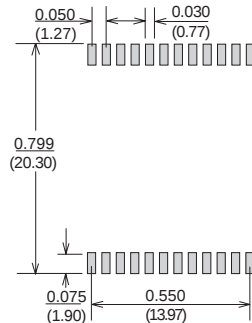
Part Number	Number of Ports	Turns Ratio ±2%	Insertion Loss (dB Typ)	Return Loss (dB Min)				Crosstalk (dB Min)			Differential to Common Mode Rejection (dB Min)		V _P (Vrms)	Schematic
		Tx	1 - 100 MHz	1-40 MHz	50 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	1-60 MHz	60-200 MHz		
TGL-100A	1	1:1	-1.0	-18	-16	-12	-10	-45	-37	-33	-39	-33	1500	A
TGL-100B	1	1:1	-1.0	-18	-16	-12	-10	-45	-37	-33	-39	-33	1500	B
TGL-100C	1	1 : 1	-1.1	-18	-16	-12	-10	-45	-37	-33	-39	-33	1500	C

TGL-100



Surface coplanarity will be 0.004 (0.01) maximum

Suggested Pad Layout



Dimensions: Inches (Millimeters)
Tolerance: ±0.010 (0.25) unless specified otherwise

Schematic

