



SCICOM Electronics Co.LTD

Part Number: TGS247019

Description: MDL,SIN,10G,1:1,SM,TU, NPB

APPLICATION-LAN ETHERNET TRANSFORMER/CHOKE



Features and Benefits:

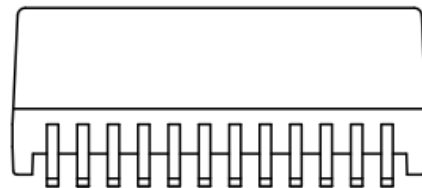
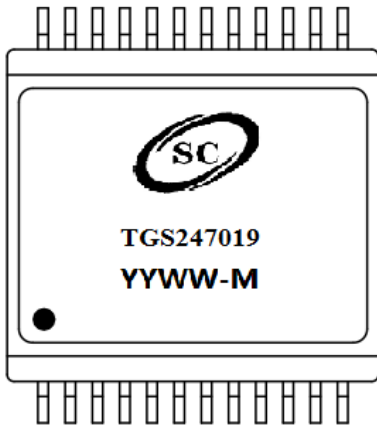
1. RoHS Compliant
2. Header: Thermoset Plastics with Flammability Rating UL 94V-0 or Better
3. Compliance to J-STD
 - A. J-STD-002: Solderability at 245°C Reflow Profile
 - B. J-STD-020: Level 1, No Moisture Sensitive
 - C. J-STD-075: R7, 245°C Maximum Through Reflow Solder



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| Electrical Specifications @ 25°C - Operating Temperature -0°C to +70°C | | | | | | | | |
|--|---------------|----------------|-------------------------|--|---------------|--|---|--|
| Turn Ratio | Polarity | Insertion Loss | | PHY-Side Return Loss (Z OUT-100 OMH+/-1%) | | | | |
| | | 100 KHz | 1-500 MHz | 1 MHz | 2 MHz-100 MHz | 100 MHz-200 MHz | 200 MHz-400 MHz | 400 MHz-500 MHz |
| 1.0 +/-2% | Per Schematic | -3.0 dB Max | -1.0 dB Max(-0.6dB TYP) | -22dB MIN | -25dB MIN | $-25 + 3 * (\frac{f - 100}{100})$ dB MIN | $-22 + 11 * (\frac{f - 200}{200})$ dB MIN | $-11 + 3 * (\frac{f - 400}{100})$ dB MIN |

| Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C | | | | | | | | |
|---|------------------------------|-------------|-----------------------------|-------------|-------------|---|-------------|-----------------------|
| Inductance(OCL) | Cross Talk Adjacent Channels | | Common Mode Rejection Ratio | | | Common to Differential Mode Rejection(CDMR) | | Isolation |
| 100 uH MIN (Measured at 100KHz, 100 mV) | 1-100MHz | 100-500 MHz | 1-100MHz | 100-300 MHz | 300-500 MHz | 1-250 MHz | 250-500 MHz | Input-Output |
| | -40 dB MIN | -40 dB MIN | -35 dB MIN | -30 dB MIN | -25 dB MIN | -30 dB MIN | -22 dB MIN | 1500 VRMS @60 Seconds |

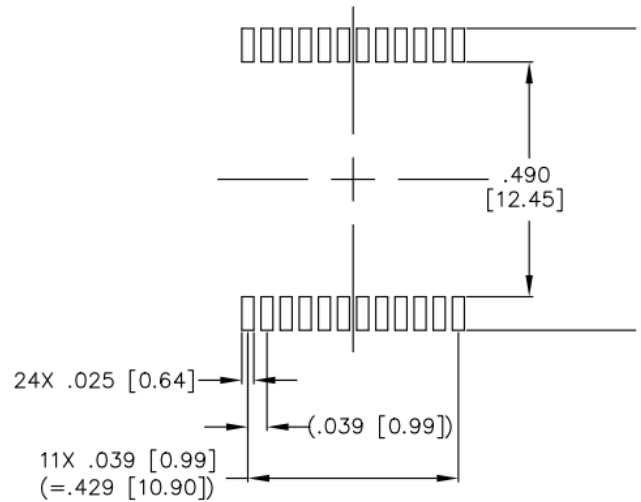
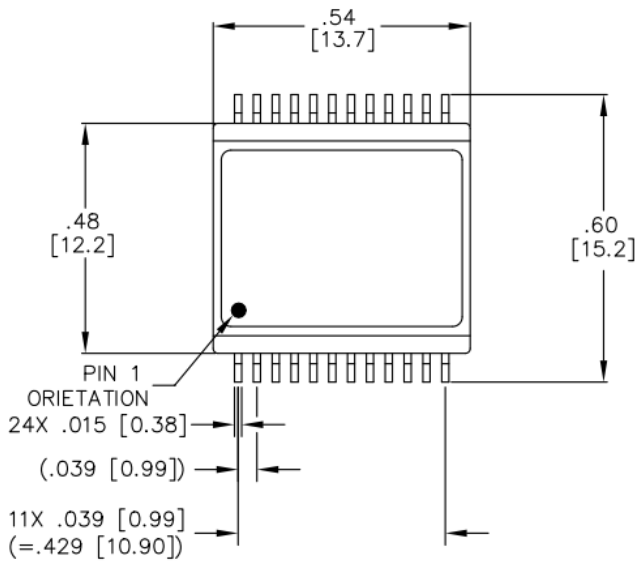


FINAL OUTLINE

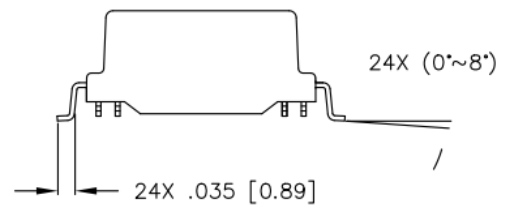
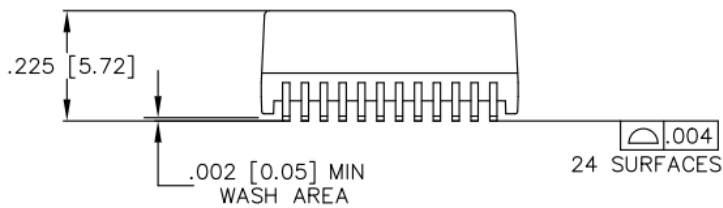


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Mechanicals



SUGGESTED LAND PATTERN

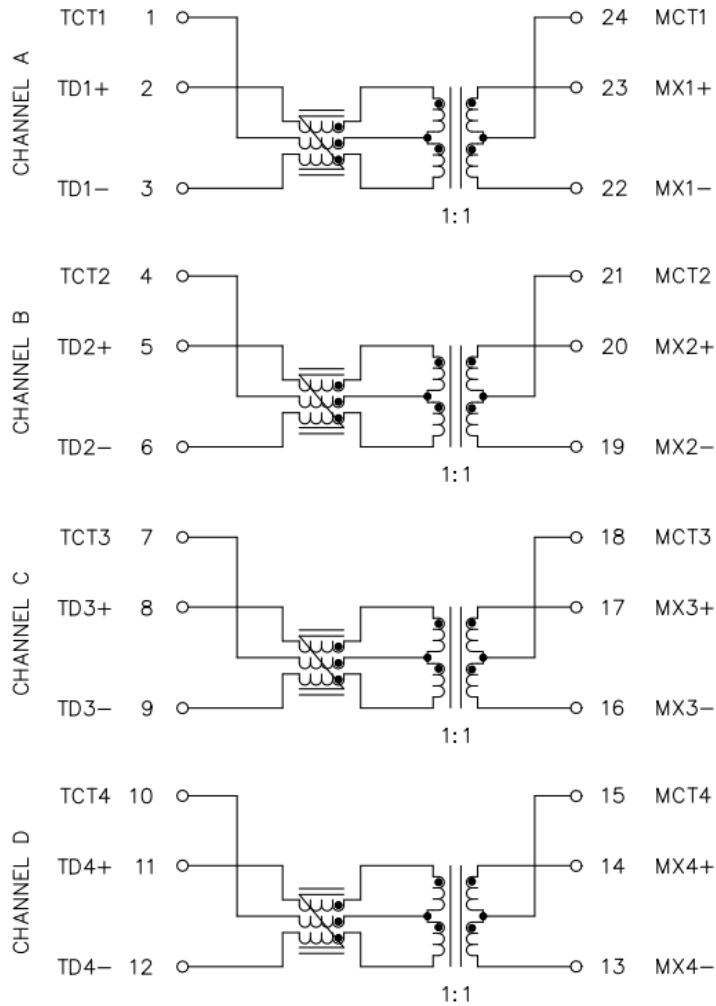


DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.

.XX= ±.02 [±0.50]
 .XXX= ±.010 [±0.25]



Schematics





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Package

