

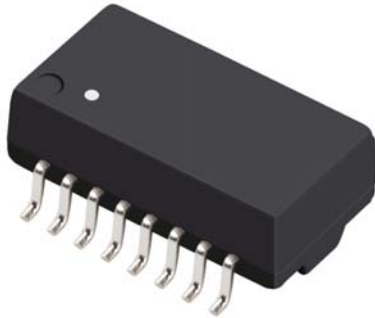


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Part Number: GX161198S

Description: MDL,SIN,100D,1:1,SMT,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



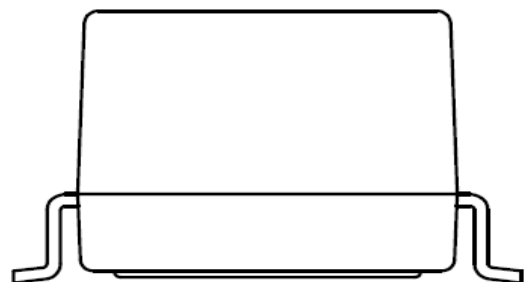
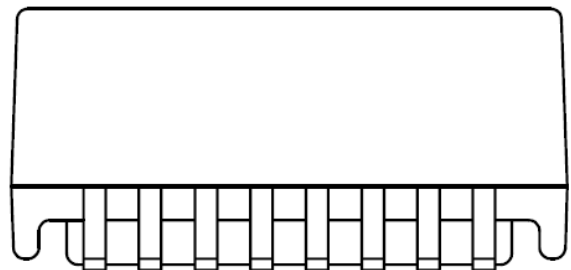
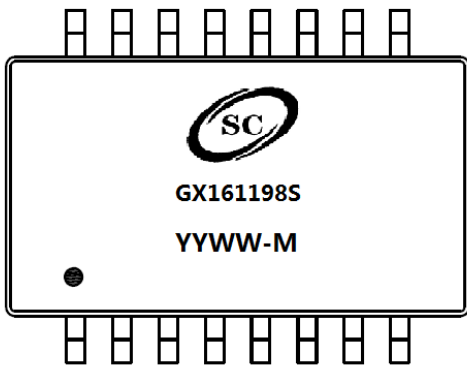
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Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

| Turn Ratio | Polarity | Insertion Loss | | Return Loss (Z OUT-100 OHM+/-15%) | | Inductance(OCL) (Media Side, -40°C - +85°C) |
|------------|---------------|----------------|------------------------------------|------------------------------------|----------------------------|---|
| | | 100 KHz | 1-125 MHz | 5 MHz | 30-80 MHz | |
| 1:1 +/-2% | Per Schematic | -1.2 dB Max | -0.2-0.002*f ^{1.4} dB MAX | -18dB MIN | -16 +26LOG(f/30MHz) dB MIN | 350 uH MIN (Measured at 100KHz,100 mVRMS and with 8 mA DC BIAS) |

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

| Cross Talk (TX-RX) | | Differential to Common Mode Rejection | Isolation |
|--------------------|--|---|-----------------------|
| 1MHz | 5-100 MHz | 5-200MHz | Input-Output |
| -62 dB MIN | -45+21LOG ₁₀ (f/30MHz) dB MIN | -50+17LOG ₁₀ (f/5MHz) dB MIN | 1500 VRMS @60 Seconds |



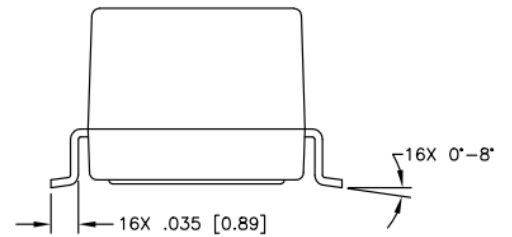
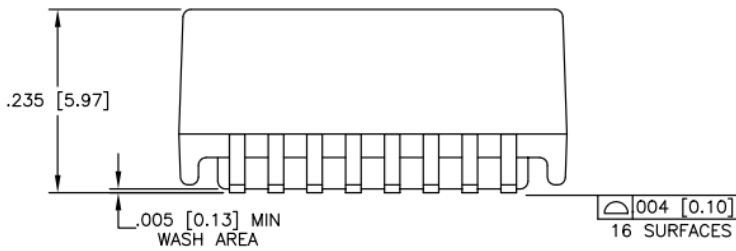
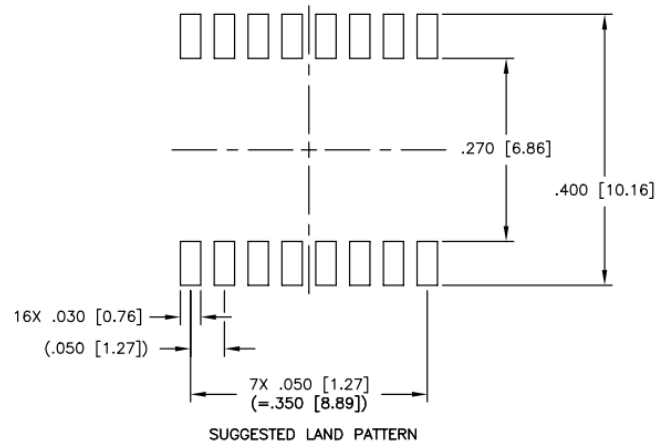
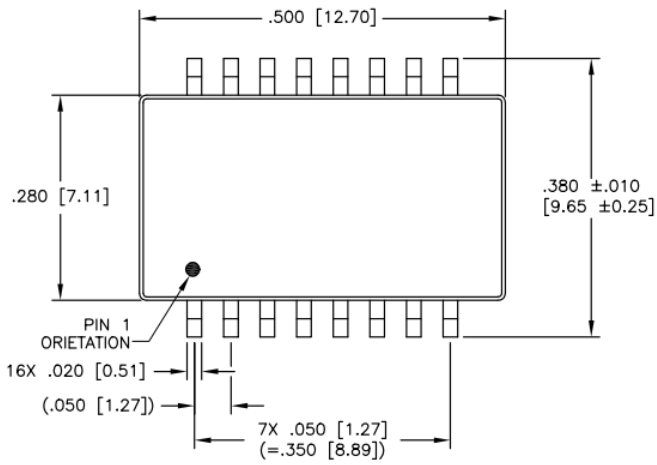
FINAL OUTLINE

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Mechanicals

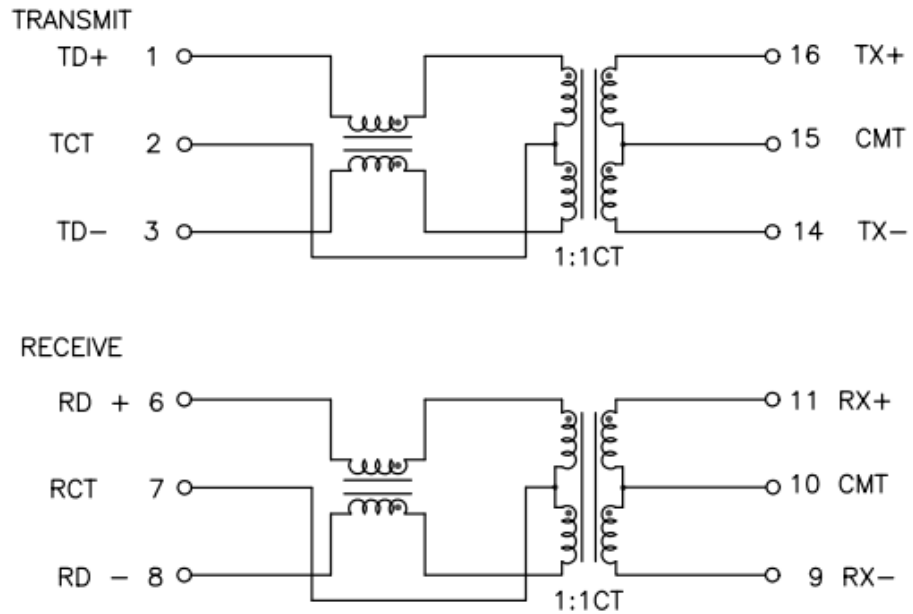


DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX= ±.01 [±0.25]
 .XXX= ±.005 [±0.13]



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Schematics



Package

