

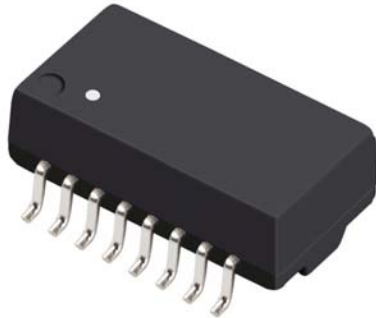


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Part Number: GS161102

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

Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

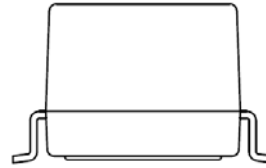
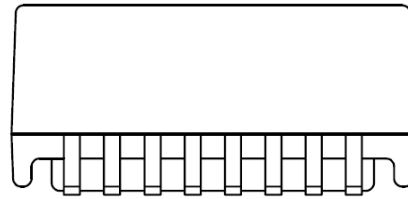
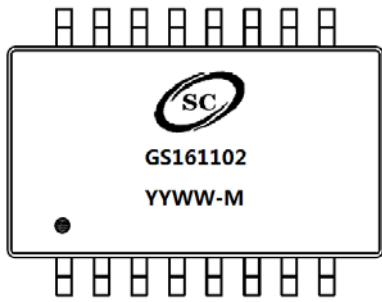
Turn Ratio	Polarity	Insertion Loss	Return Loss, 1000BT (Z OUT=100 OHM+/-15%)			Inductance(OCL) (Media Side, 0°C - +70°C)
		100 KHz-100 MHz	0.1-30 MHz	30-60 MHz	60-80 MHz	
1:1 +/-2%	Per Schematic	-1.1 dB Max	-16dB MIN	-10+20*LOG ₁₀ (f/60 MHz) dB Min	-10 dB MIN	350 uH MIN (Measured at 100KHz,100 mVRMS and with 8 mA DC BIAS)

Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C

Cross Talk Adjacent Channels				Differential to Common Mode Rejection			DC Resistance 1/2 Winding	DC Resistance Imbalance	Isolation
1MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	0.65 OHMS Max	+/-0.65 OHM Max (Center Tap Symmetry)	Input-Output
-35 dB MIN	-35 dB MIN	-30 dB MIN	-30 dB MIN	-42 dB MIN	-37 dB MIN	-30 dB MIN			

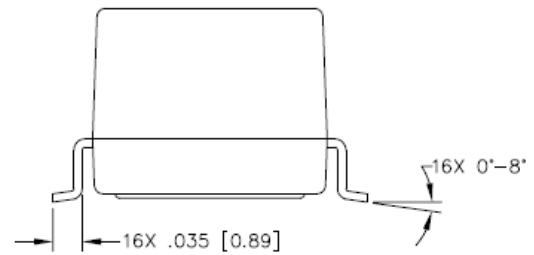
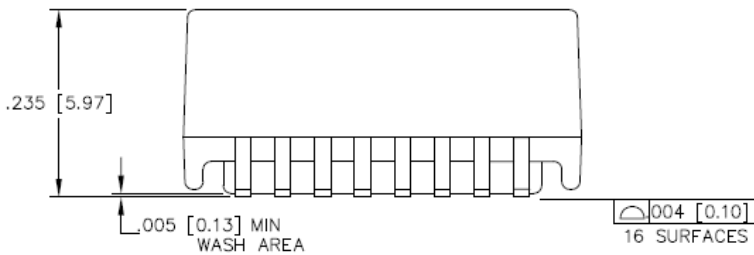
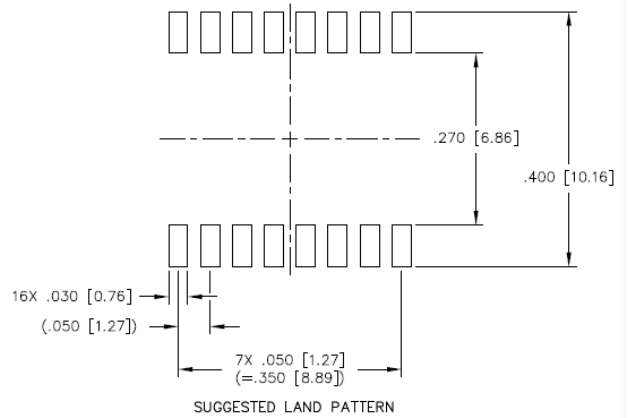
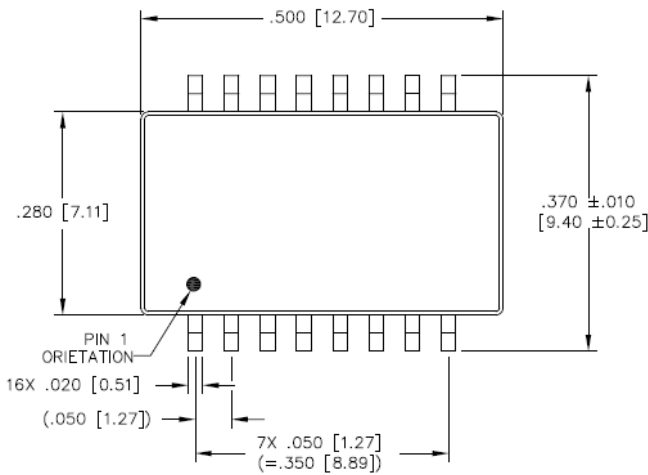


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FINAL OUTLINE

Mechanicals



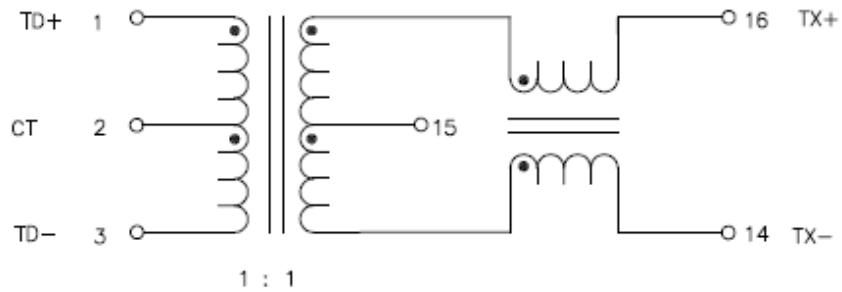
DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX= ±.01 [±0.25]
 .XXX= ±.005 [±0.13]



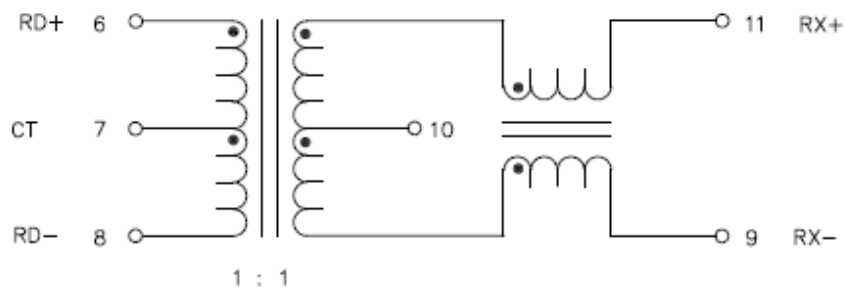
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Schematics

TRANSMIT



RECEIVE



Package

