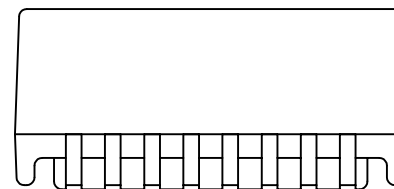
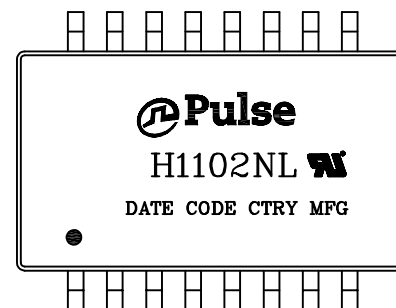


NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. 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
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H1102NL BECOMES H1102NLT).

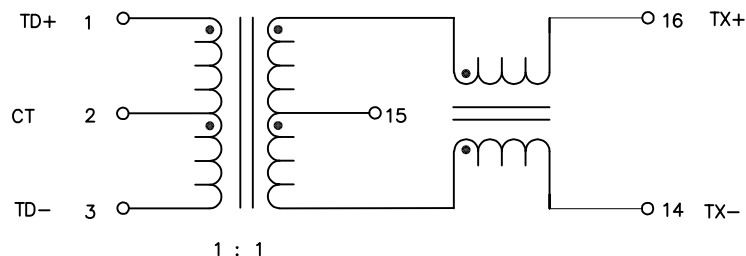


FINAL OUTLINE

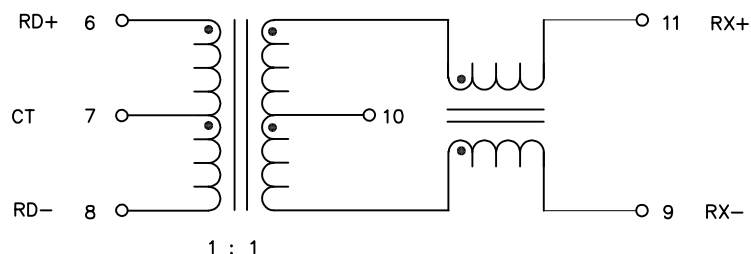
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SMT	H1102NL-24	PS-2005.001-F	1 OF 3	H1102NL	A

TRANSMIT



RECEIVE



SCHEMATIC

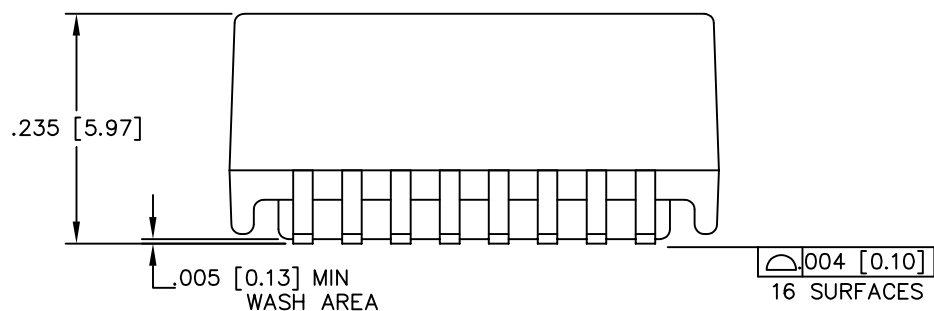
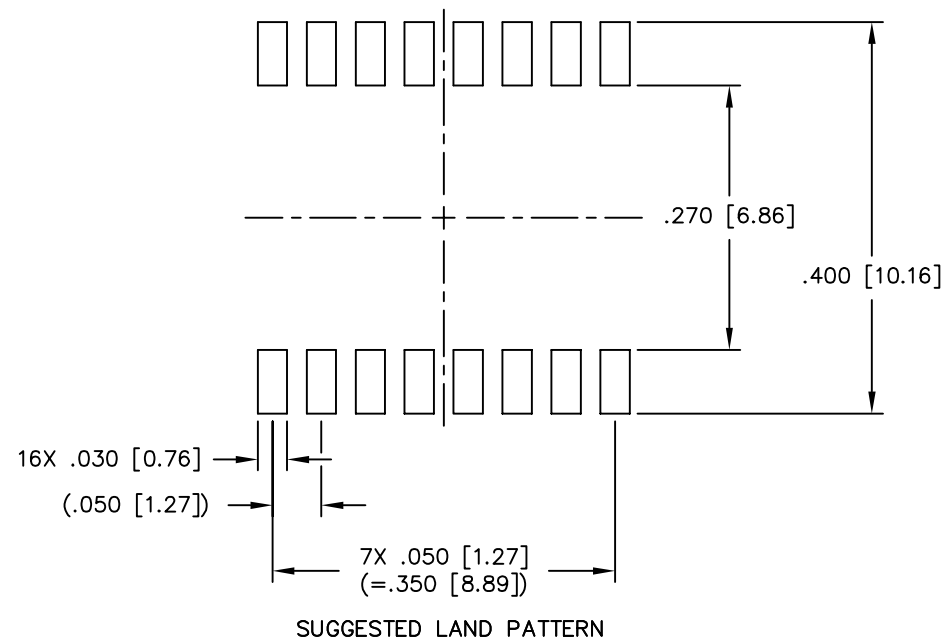
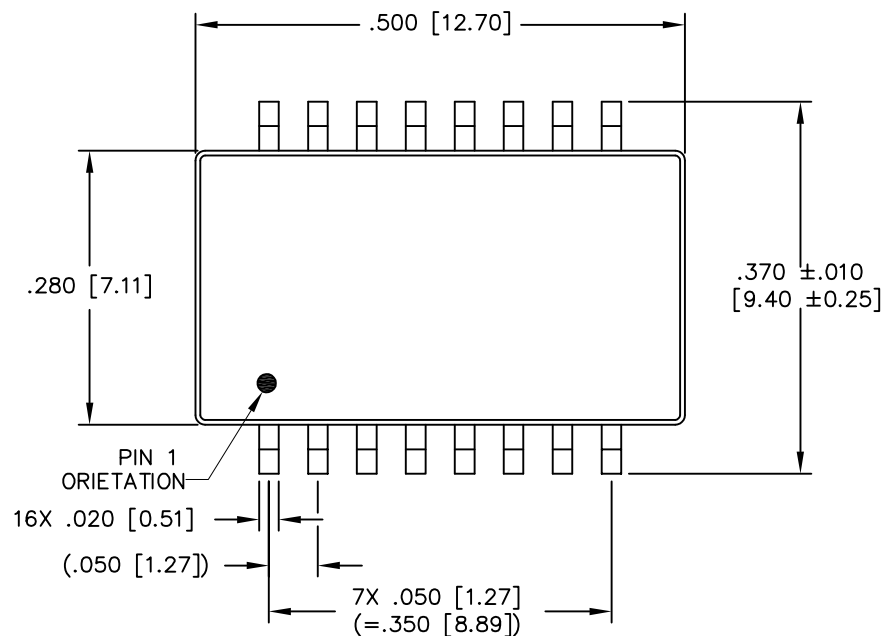
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS			
OPERATING TEMP	0°C – 70 °C			
TURNS RATIO	1 : 1 ±2%			
POLARITY	PER SCHEMATIC			
INSERTION LOSS	100 KHZ – 100 MHZ			
	-1.1 dB MAX			
RETURN LOSS, 1000BT (Z OUT = 100 OHM ±15%)	.1–30 MHZ	30–60 MHZ	60–80 MHZ	
	-16 dB MIN	-10+20*LOG ₁₀ (f/60 MHZ) dB MIN	-10 dB MIN	
INDUCTANCE (OCL) (MEDIA SIDE, 0°C–70°C)	350 uH MIN (MEASURED AT 100 KHZ, 100 mVRMS ^S AND WITH 8 mA DC BIAS)			
CROSSTALK, ADJACENT CHANNELS	1 MHZ	30 MHZ	60 MHZ	100 MHZ
	-35 dB MIN	-35 dB MIN	-30 dB MIN	-30 dB MIN
DIFFERENTIAL TO COMMON MODE REJECTION	30 MHZ	60 MHZ	100 MHZ	
	-42 dB MIN	-37 dB MIN	-30 dB MIN	
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)			
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS			

NOTE: f IS FREQUENCY IN MHZ.

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MDL,SIN,100D,1:1,SMT	H1102NL-24	PS-2005.001-F	2 OF 3	H1102NL	A



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

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1: 1,SMT	H1102NL-24	PS-2005.001-F	3 OF 3	H1102NL	A