


NOTES: UNLESS OTHERWISE SPECIFIED

1.

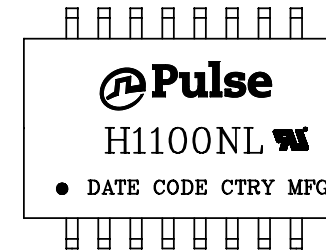
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS-6	
	

2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
4. OPERATING TEMPERATURE: 0°C TO +70°C
5. STORAGE TEMPERATURE: -20°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:
.XX = ±.01
.XXX = ±.005

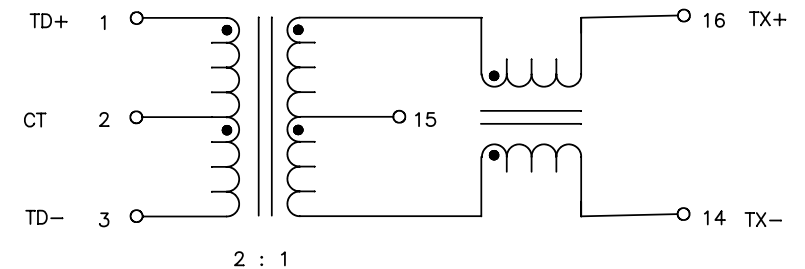
ELECTRICAL CHARACTERISTICS:
ELECTRICAL: @ +25°C

PARAMETER	SPECIFICATIONS		
	100 KHz	1-125 MHz	
INSERTION LOSS	-1.2 dB MAX	$-0.2-0.002*f^{1.4}$ dB MAX	
RETURN LOSS (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) (AND WITH 8 mA DC BIAS)	
CROSSTALK, ADJACENT CHANNELS	1 MHz	10-100 MHz	
	-50 dB MIN	$-50+17*LOG_{10}(f/10)$ dB MIN	
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz	30-200 MHz	
	-50 dB MIN	$-43+22*LOG_{10}(f/30)$ 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		

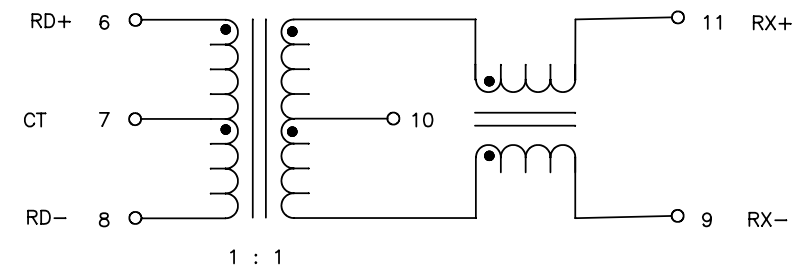
NOTE: f IS FREQUENCY IN MHz.



TRANSMIT



RECEIVE



SCHEMATIC

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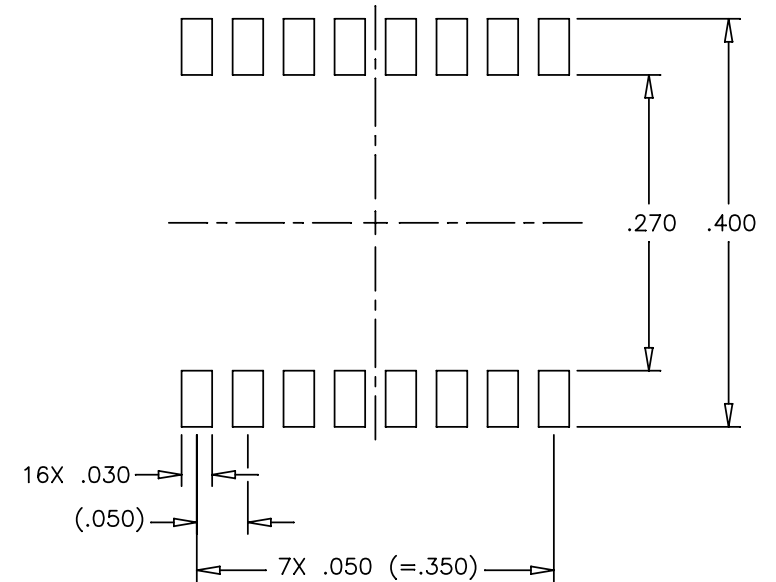
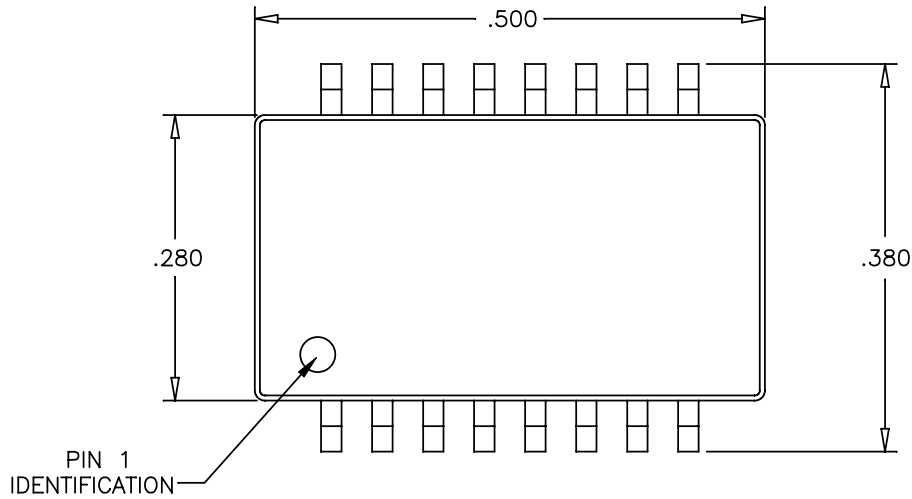
PRODUCT DESCRIPTION
MDL,SIN,100D,2:1,SMT

PS DRAWING
PS-2005.001-D

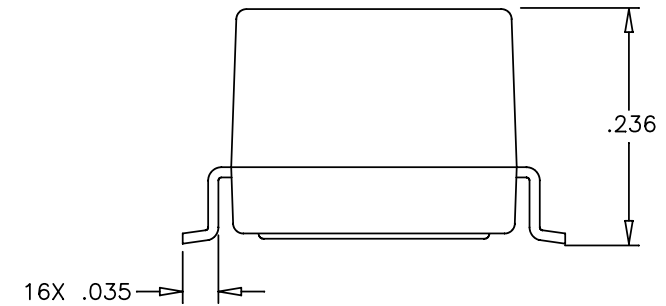
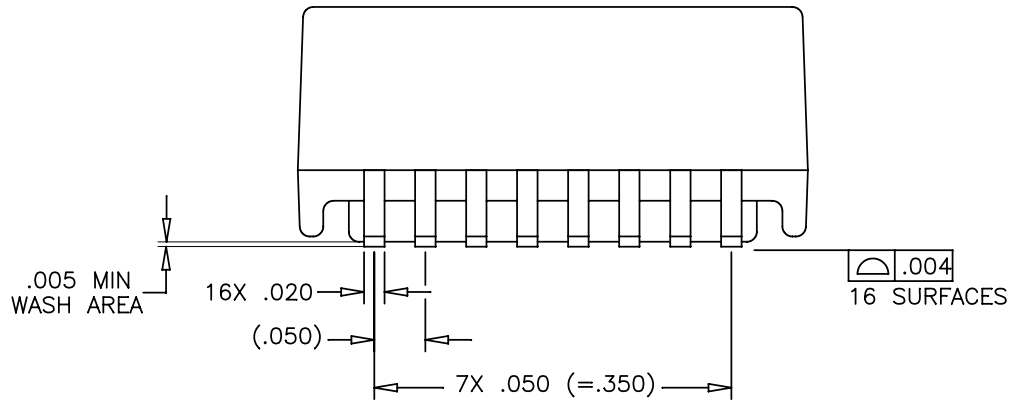
SHEET:
1

DWG. NO./ PART NO.
H1100NL

REV.
M13



SUGGESTED LAND PATTERN



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PRODUCT DESCRIPTION
 MDL,SIN,100D,2:1,SMT

PS DRAWING
 PS-2005.001-D

SHEET:
 2

DWG. NO./ PART NO.
 H1100NL

REV.
 M13