

NOTES: UNLESS OTHERWISE SPECIFIED

1.

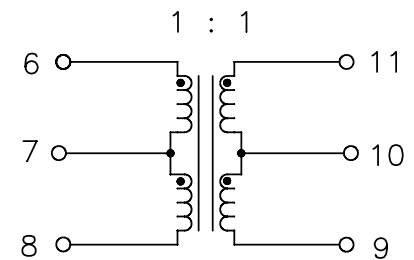
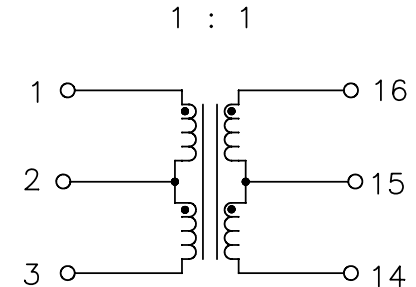
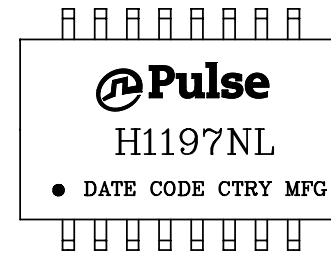
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS-6 ✓	

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	-0.3 dB MAX	$-0.3 - 0.002 * f^{1.31}$
RETURN LOSS (Z OUT = 100 OHM ±15%)	.1-40 MHz	40-100 MHz
	-18 dB MIN	$-12 + 20 * \log_{10}(f/80 \text{ MHz})$ dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, 0°C-70°C)	1200 uH MINIMUM (MEASURED AT 100 KHz, 100 mVRMS) (AND WITH 8 mA DC BIAS)	
URNS RATIO	(1-3) : (16-14) = 1:1 ±1% (6-8) : (11-9) = 1:1 ±1%	
DC RESISTANCE	0.8 OHMS MAX	
LEAKAGE INDUCTANCE	0.35 uH MAX	
DC RESISTANCE BALANCE	±.065 OHMS	
INPUT - OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.



SCHEMATIC

© Copyright, 2013. Pulse Electronics, Inc. All rights reserved. Drawing specifications subject to change without notice. (7/19/13)

PULSE CONFIDENTIAL
&
PROPRIETARY

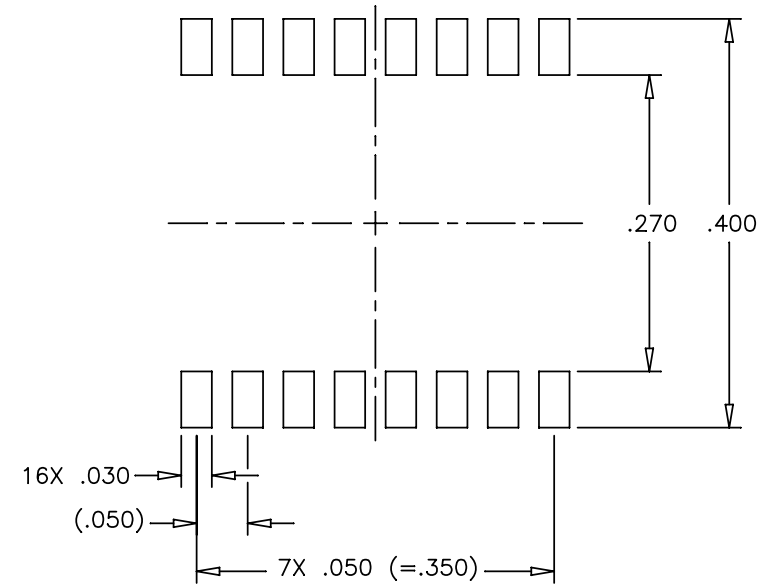
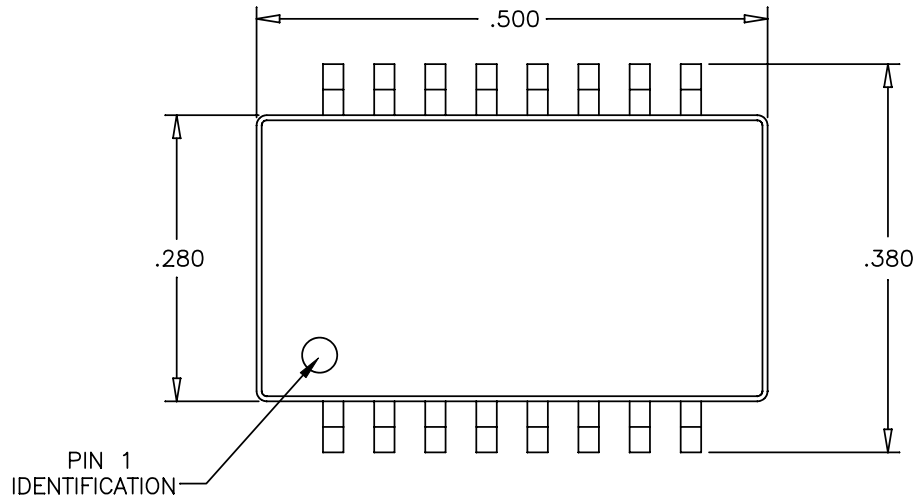
PRODUCT DESCRIPTION
XFRM,SIN,100D,1:1,SMT

PS DRAWING
PS-2005.001-D

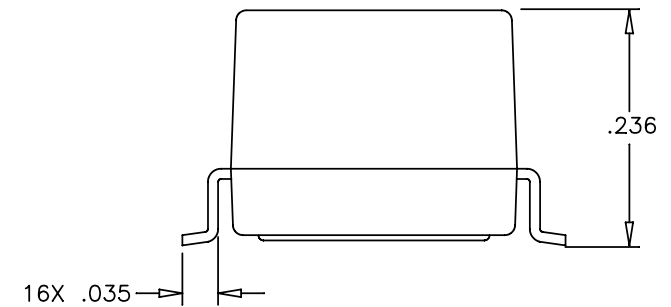
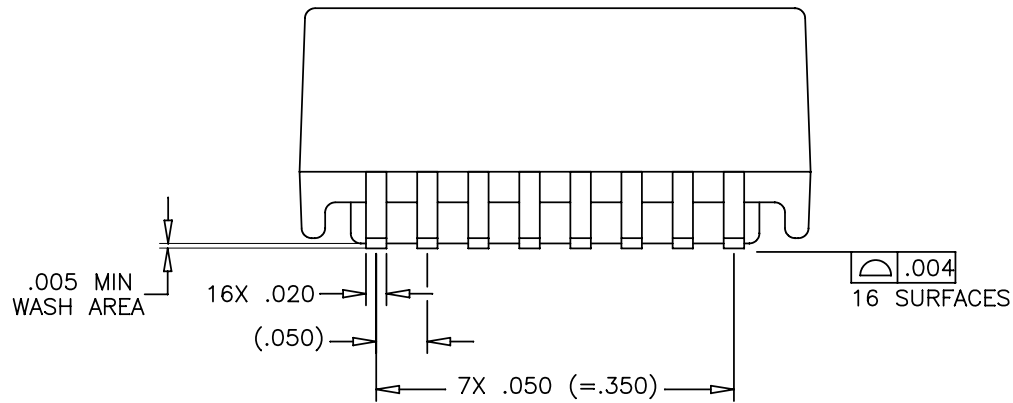
SHEET:
1

DWG. NO./ PART NO.
H1197NL

REV.
M13



SUGGESTED LAND PATTERN



© Copyright, 2013. Pulse Electronics, Inc. All rights reserved. Drawing specifications subject to change without notice. (7/19/13)

PULSE CONFIDENTIAL
&
PROPRIETARY

PRODUCT DESCRIPTION
XFRM,SIN,100D,1:1,SMT

PS DRAWING
PS-2005.001-D

SHEET:
2

DWG. NO./ PART NO.
H1197NL

REV.
M13