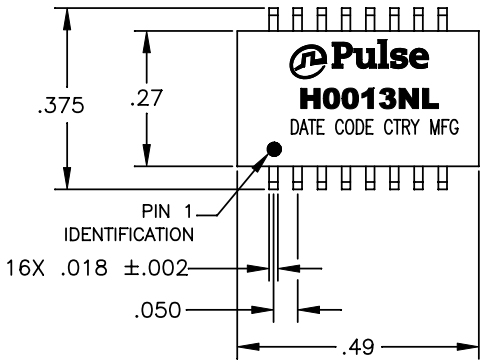
Pulse Electronics
www.pulseelectronics.com

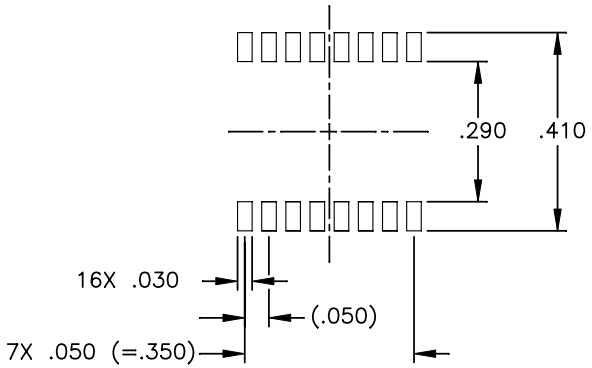
NOTES: UNLESS OTHERWISE SPECIFIED

1.

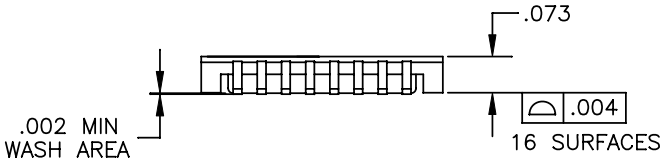
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS ✓	

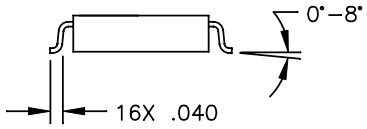
2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V–0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J–STD–002, 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J–STD–003A
4. OPERATING TEMPERATURE: 0°C TO +70°C
5. STORAGE TEMPERATURE: –20°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:
   .XX= ±.01
   .XXX= ±.005
8. REVISION: MP1,MP2, ... ARE PRELIMINARY.



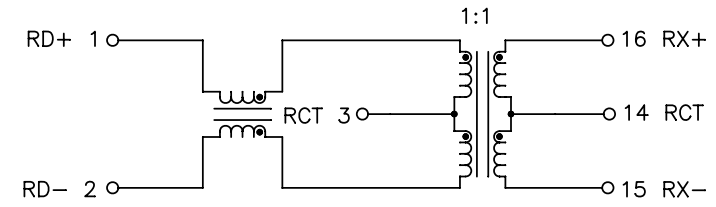


SUGGESTED LAND PATTERN

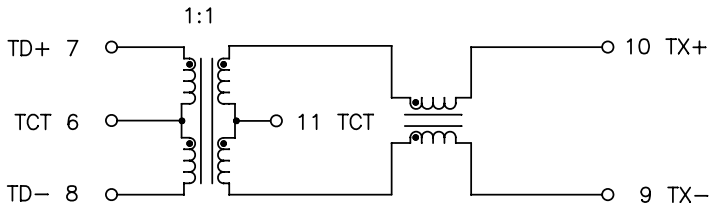




PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	10/100 PCMCIA XFMR/CHOKE	–	1	H0013NL	M15



RECEIVE



TRANSMIT

SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	0°C – 70 °C		
TURNS RATIO	1 : 1 ±2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1–125 MHz	
	–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	$-10+20*\log_{10}(f/60\ \text{MHz})$ 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	$-55+22*\log_{10}(f/10)$ dB MIN	
COMMON MODE REJECTION RATIO	2 MHz	30–200 MHz	
	–50 dB MIN	$-15+20*\log_{10}(f/200)$ 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.

PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,100D,1:1,SM,TU	–	2	H0013NL	M15