

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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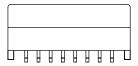


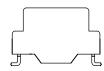
## NOTES:

- ROHS COMPLIANT
- 2. STORAGE TEMPERATURE: -50°C TO +125°C
- 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
- 4. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX

  TO THE PART NUMBER(i.e HXXXXXXNL BECOMES HXXXXXXNLT).







FINAL OUTLINE

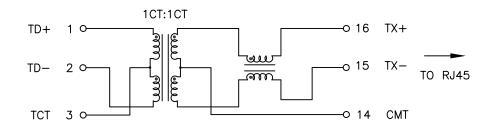
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SM,TU	HM1190NL-P1	PS-2005.002-D	1 OF 3	HM1190NL	D

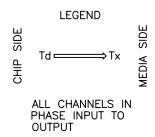








SCHEMATIC



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

PARAMETER	SPECIFICATIONS					
OPERATING TEMP	-40°C TO +125°C					
TURNS RATIO	1 : 1 ±2%					
POLARITY	PER SCHEMATIC					
INDUCTANCE (OCL) (MEDIA SIDE,-40°C~+125°C)	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS)					
INCEPTION LOCC	1-100 MHz	125 MHz				
INSERTION LOSS	-1.0 dB MAX	-3.0 dB MAX				
RETURN LOSS	5 MHz	30-80 MHz				
$Z_{OUT} = 100 OHMS$	-18 dB MIN	$-16 + 20LOG_{10} (f/30 MHz) dB MIN$				
DIFFERENTIAL TO	5-200 MHz					
COMMON MODE REJECTION	-50 + 17LOG <sub>10</sub> (f/5 MHz) dB MIN					
INPUT — OUTPUT ISOLATION	2500 VRMS FOR 60 SECONDS					

NOTE: f IS FREQUENCY IN MHz.

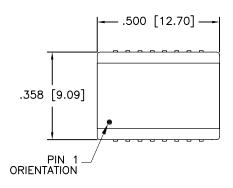
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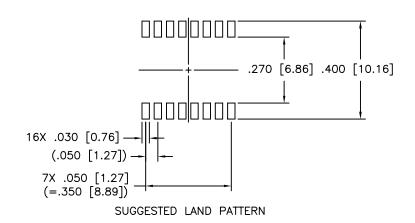
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SM,TU	HM1190NL-P1	PS-2005.002-D	2 OF 3	HM1190NL	D

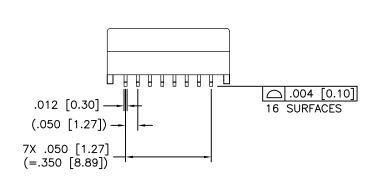


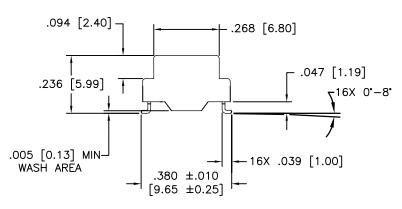












DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY. .XX=  $\pm .01$  [ $\pm 0.25$ ] .XXX=  $\pm .005$  [ $\pm 0.13$ ]

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SM,TU	HM1190NL-P1	PS-2005.002-D	3 OF 3	HM1190NL	D