

NOTES: UNLESS OTHERWISE SPECIFIED

1.

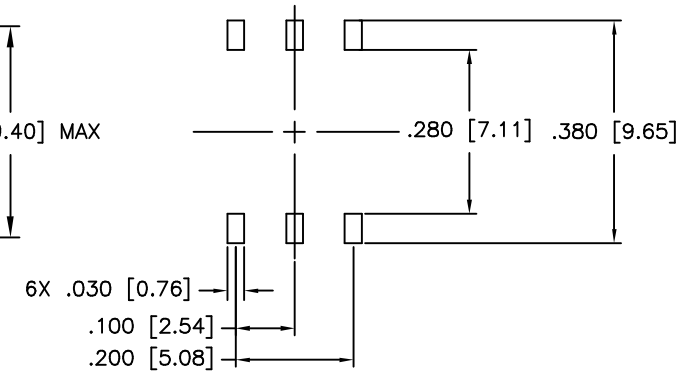
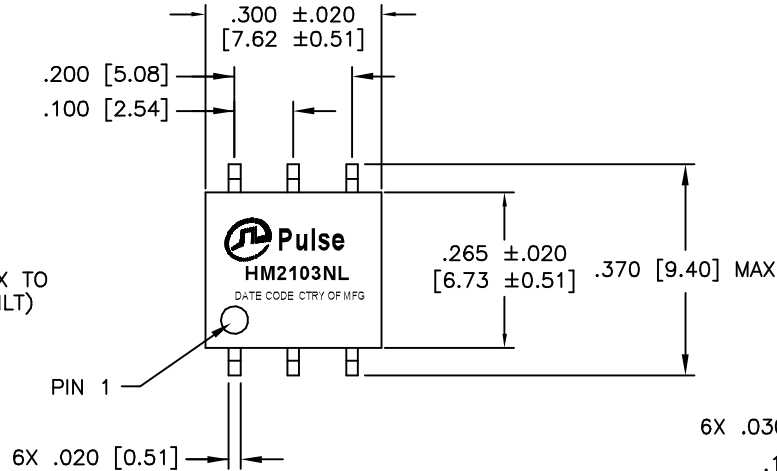
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS	

2. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, IPC/EIA J-STD-003A.
3. OPERATING TEMPERATURE: -40°C TO +125°C
4. STORAGE TEMPERATURE: -50°C TO +125°C
5. JEDEC MOISTURE: LEVEL 1.
6. AEC-Q200 QUALIFIED
7. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER (ie. HM2103NL BECOMES HM2103NLT)
8. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

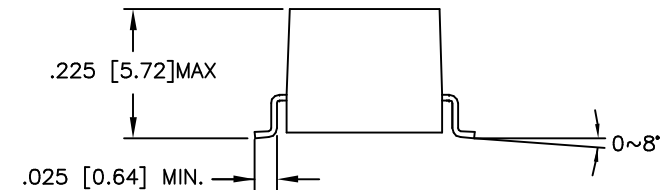
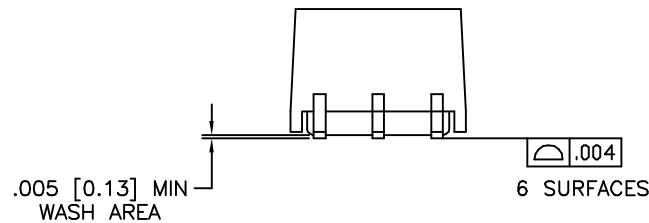
DECIMALS

.XX ±.01

.XXX ±.005

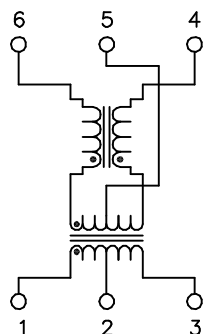
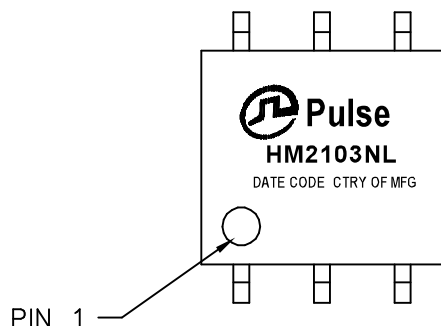


SUGGESTED LAND PATTERN



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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
TRANSFORMER/CMC,4.3kVDC ISO,SGL,SMT	HM2103NL-10	PS-01528.001-A	1 OF 2	HM2103NL	N



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

PARAMETER	SPECIFICATIONS	
QUALIFICATION	PER AEC-Q200	
DESIGN CONSTRUCTION	FUNCTIONAL INSULATION	
CREEPAGE DISTANCE	> 5mm	
OPERATING TEMPERATURE	-40°C TO 125 °C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
DC RESISTANCE	TRANSFORMER SIDE	CM CHOKE SIDE
	0.45 OHMS MAX	0.85 OHMS MAX
INDUCTANCE (OCL) AT 100 kHz, 100 mV (-40°C TO +125°C)	150 uH MIN, 450 uH MAX	
LEAKAGE INDUCTANCE	0.50 uH MAX @ 100 kHz	
INSERTION LOSS	0.25 dB MAX @ 4 MHz	
RETURN LOSS (Z OUT = 100 OHM ±1%)	20 dB MIN @ 4 MHz	
COMMON MODE REJECTION RATIO	1-10 MHz	10-1000 MHz
	-35 dB MIN	-20 dB MIN
INPUT - OUTPUT ISOLATION	4300 VDC FOR 60 SECONDS WITH 1.0 mA MAX OF LEAKAGE CURRENT	
INSULATION RESISTANCE	400 MEGAOHMS MINIMUM	
WORKING VOLTAGE	1000 VDC FOR 15 YEARS	

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Mouser Electronics

Authorized Distributor

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Pulse:

[HM2103NL](#) [HM2103NLT](#)