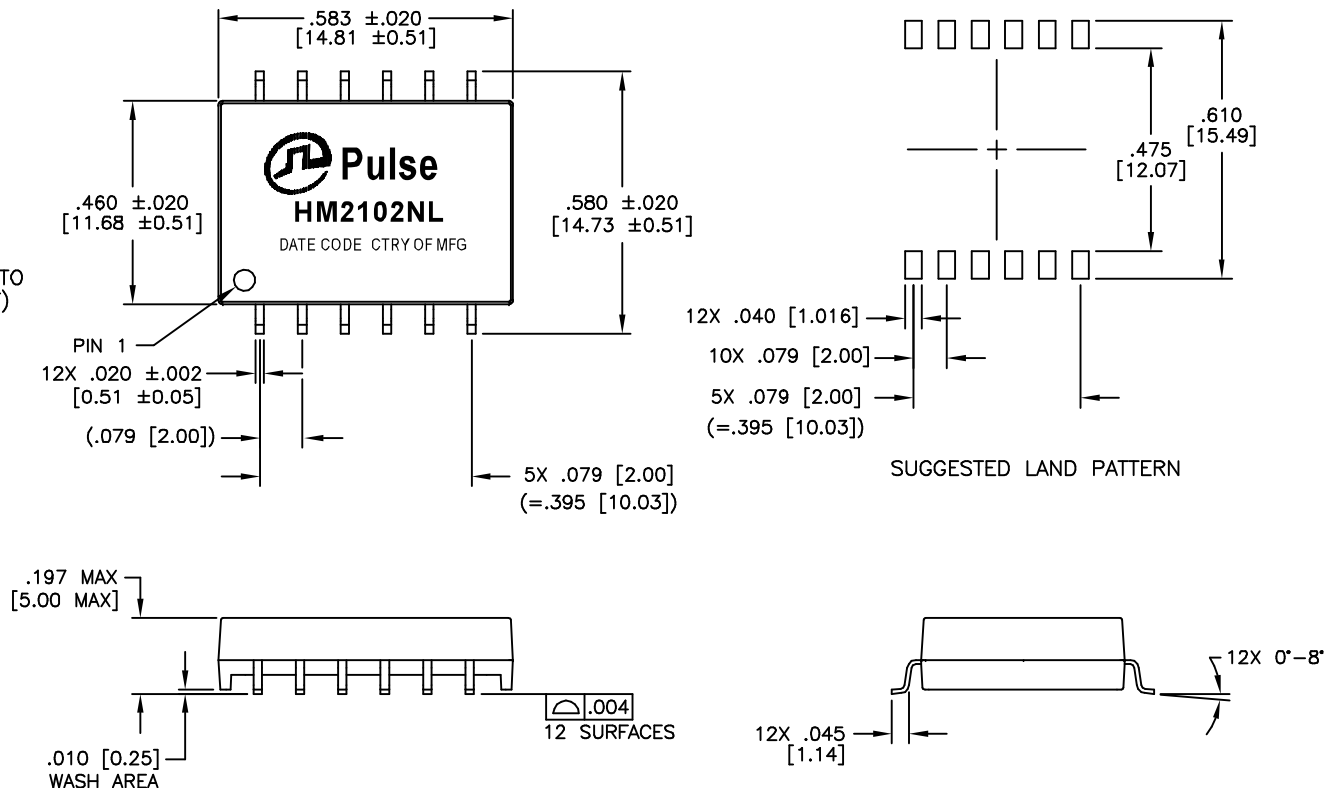


NOTES: UNLESS OTHERWISE SPECIFIED

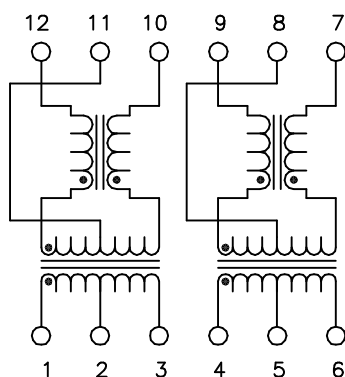
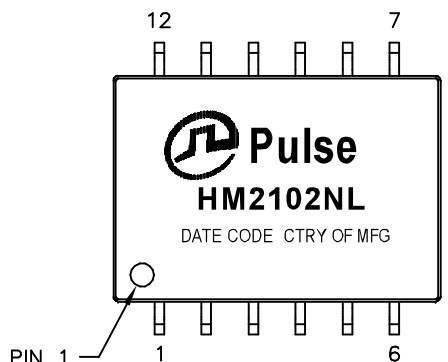
1. 

|           |                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------|
| NOTICE:   | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
| RoHS<br>✓ |                                                                                                                    |
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. HM2102NL BECOMES HM2102NLT)
8. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE:  
 DECIMALS  
 .XX ±.01  
 .XXX ±.005



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| PRODUCT DESCRIPTION            | TLA DRAWING | PS DRAWING     | SHEET  | PART NO. | DATASHEET REV. |
|--------------------------------|-------------|----------------|--------|----------|----------------|
| TRANSFORMER/CMC,DUAL,4.3kV,SMT | HM2102NL-10 | PS-01527.001-A | 1 OF 2 | HM2102NL | N              |



ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

| PARAMETER                                                   | SPECIFICATIONS                                                            |               |
|-------------------------------------------------------------|---------------------------------------------------------------------------|---------------|
| QUALIFICATION                                               | PER AEC-Q200                                                              |               |
| DESIGN CONSTRUCTION                                         | FUNCTIONAL INSULATION                                                     |               |
| CREEPAGE DISTANCE                                           | > 10mm                                                                    |               |
| 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)<br>AT 100 kHz, 100 mV<br>(-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<br>(Z OUT = 100 OHM ±1%)                        | 20 dB MIN @ 4 MHz                                                         |               |
| CROSSTALK, ADJACENT CHANNELS                                | -50 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 OR 3100 VAC FOR 60 SECONDS<br>WITH 1.0 mA MAX OF LEAKAGE CURRENT |               |
| INSULATION RESISTANCE                                       | 400 MEGAOHMS MINIMUM                                                      |               |
| WORKING VOLTAGE                                             | 1600 VDC FOR 15 YEARS                                                     |               |

| PRODUCT DESCRIPTION            | TLA DRAWING | PS DRAWING     | SHEET  | PART NO. | DATASHEET REV. |
|--------------------------------|-------------|----------------|--------|----------|----------------|
| TRANSFORMER/CMC,DUAL,4.3kV,SMT | HM2102NL-10 | PS-01527.001-A | 2 OF 2 | HM2102NL | N              |