"NOTES:

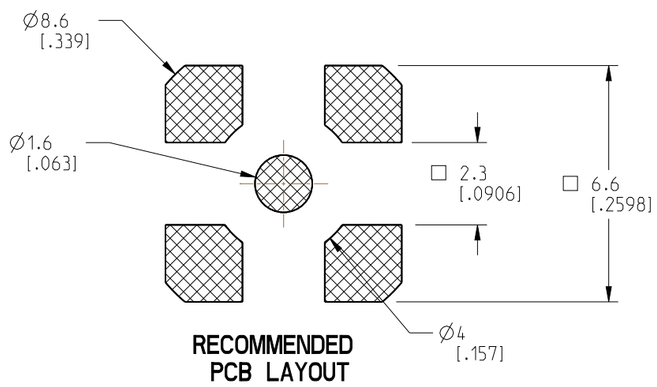
1. MATERIALS AND FINISHES:
   BODY - BERYLLIUM COPPER, GOLD PLATING
   CONTACT - BERYLLIUM COPPER, GOLD PLATING
   INSULATOR - PTFE, NATURAL

2. ELECTRICAL:
   A. IMPEDANCE: 50 OHM
   B. FREQUENCY RANGE: DC-6 GHz
   C. VSWR (RETURN LOSS): 1.20 MAX.
   D. DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS, MIN. (FOR ONE MINUTE)
   E. CONTACT RESISTANCE: 5 mOHM MAX. (CENTER CONTACT)
      1 mOHM MAX. (OUTER CONTACT)
   F. VOLTAGE RATING: 500 VOLTS
   G. INSULATION RESISTANCE: 10000 MOHM (AT 500V FOR ONE MINUTE)

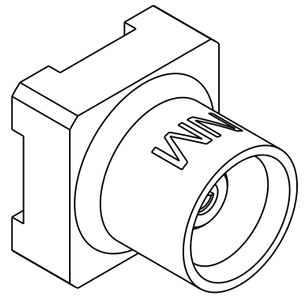
3. MECHANICAL:
   A. DURABILITY: 500 CYCLES MIN.
   B. TEMPERATURE RANGE: -40°C TO +165°C

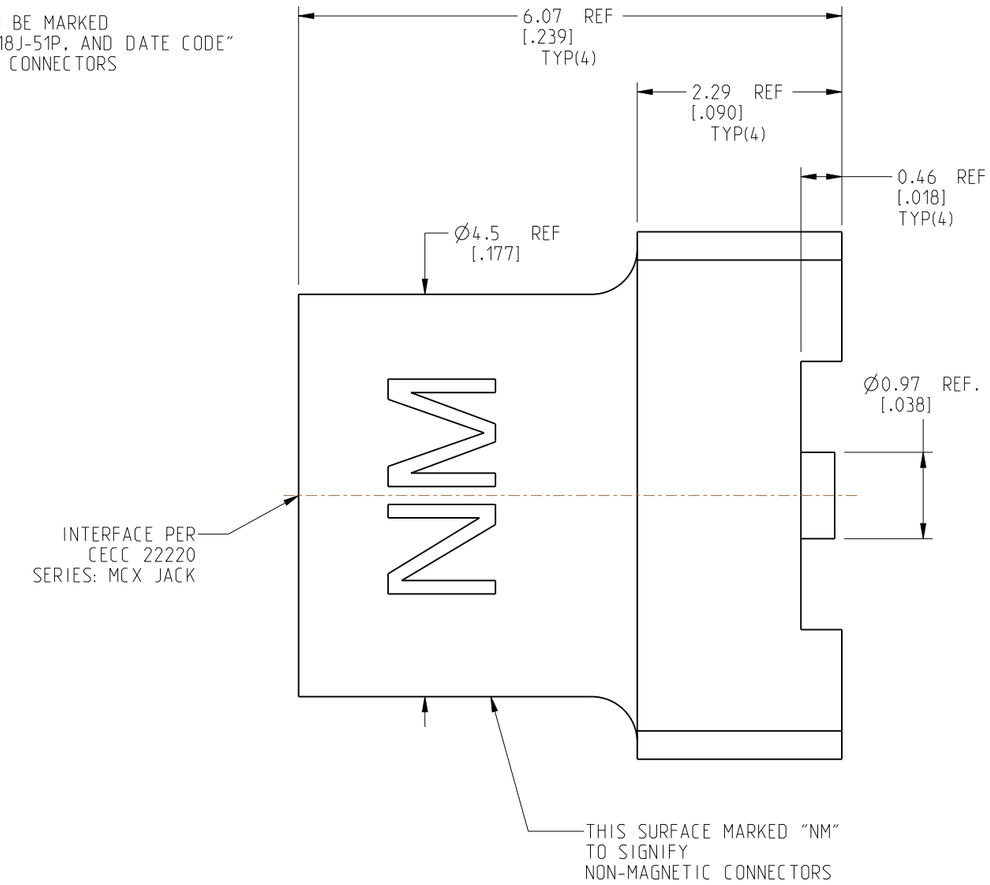
4. PACKAGING:
   A. QUANTITY: SINGLE PACK
   B. MARKING: PACKAGING TO BE MARKED
      "AMPHENOL RF, 919-NM118J-51P, AND DATE CODE"
      AND "NON-MAGNETIC CONNECTORS

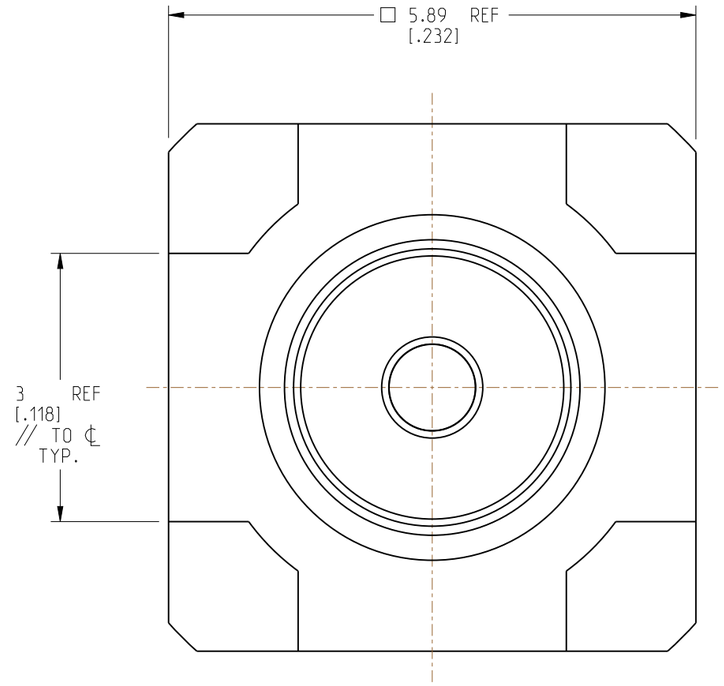
| REVISIONS | | | | |
|---|---|---|---|---|
| REV | DESCRIPTION | DATE | ECN | BY |
| A | RELEASE TO MFG. | 23-Mar-26 | 17837 | LQ |




**RECOMMENDED PCB LAYOUT**




**CUSTOMER OUTLINE DRAWING**

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

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THIRD ANGLE PROJ.

REFERENCE 919-118J-51P | EAR# 13126

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE METRIC [INCHES] AND TOLERANCES ARE:

| | |
|---|---|
| <0.5mm = ±0.05mm | [<0.020 = ±0.002] |
| 0.5 - 6mm = ±0.1mm | [>0.020 - 0.236 = ±0.004] |
| >6.00 - 30mm = ±0.2mm | [>0.236 - 1.181 = ±0.008] |
| >30.00 - 120mm = ±0.3mm | [>1.181 - 4.725 = ±0.012] |

ANGLES = ±1°

MATERIAL: SEE NOTES

ENGR.1: S. HOFFLER | ENGR.2: M.ZHANG | DATE: 10-SEP-25

TITLE: MCX STR JACK SURFACE MOUNT RECEPTACLE NON-MAGNETIC

SHEET NO. 2 OF 2 | SCALE: 15.0:1.0

Amphenol RF

| SIZE | DRAWING NO. | REV |
|---|---|---|
| B | 919-NM118J-51P | A |
| | ITEM NO. 919-NM118J-51P | |
| | PART NO. 919-NM118J-51P | |