| PART NUMBER | ITEM ① BODY | ITEM ② CONTACT | ITEM ③ INSULATOR | ITEM ④ SCREW |
|---|---|---|---|---|
| 142-0711-281 | BRASS<br>GOLD PL .00002 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER | TEFLON | STAINLESS STEEL<br>L=3/16″ |

| REV | ECO | DATE |
|---|---|---|
| 1 | INITIAL RELEASE | 24MAR2023 |
| | | |
| | | |

NOTES:

1. ELECTRICAL SPECIFICATIONS:

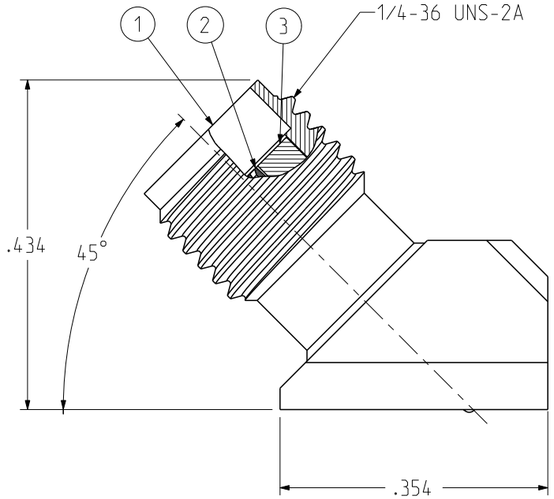
   1.1 IMPEDANCE: 50 OHMS
   1.2 FREQUENCY RANGE: 0-26.5 GHz
   1.3 VSWR: 1.50 MAX
   1.4 WORKING VOLTAGE: 170 VRMS MAX AT SEA LEVEL
   1.5 DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
   1.6 INSULATION RESISTANCE: 1000 MEGOHM MIN
   1.7 CONTACT RESISTANCE:
      1.7.1 CENTER CONTACT - INTIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
      1.7.2 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX
   1.8 CORONA LEVEL: 125 VOLTS MINIMUM AT 70,000 FEET
   1.9 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 335 VRMS MIN AT 4 AND 7 MHz

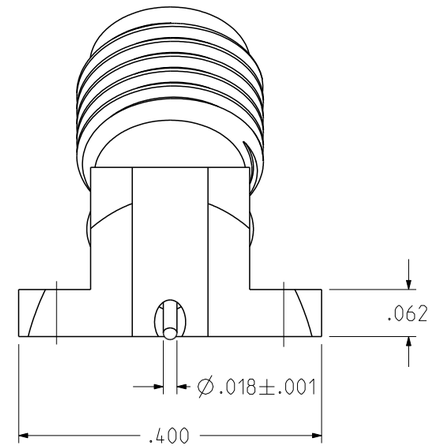
2. MECHANICAL SPECIFICATIONS:

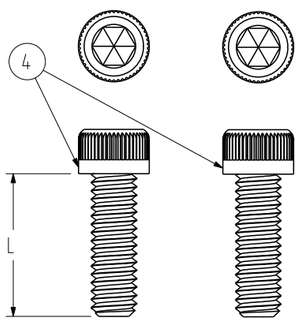
   2.1 ENGAGE/DISENGAGE TORQUE: 2 IN LBS MAX
   2.2 MATING TORQUE: 7-10 IN LBS
   2.3 DURABILITY: 500 CYCLES MIN

3. ENVIRONMENTAL:
   (MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)

   3.1 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B EXCEPT 115°C HIGH TEMP.
   3.2 OPERATING TEMPERATURE: -65 °C TO 165 °C
   3.3 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
   3.4 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
   3.5 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
   3.6 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

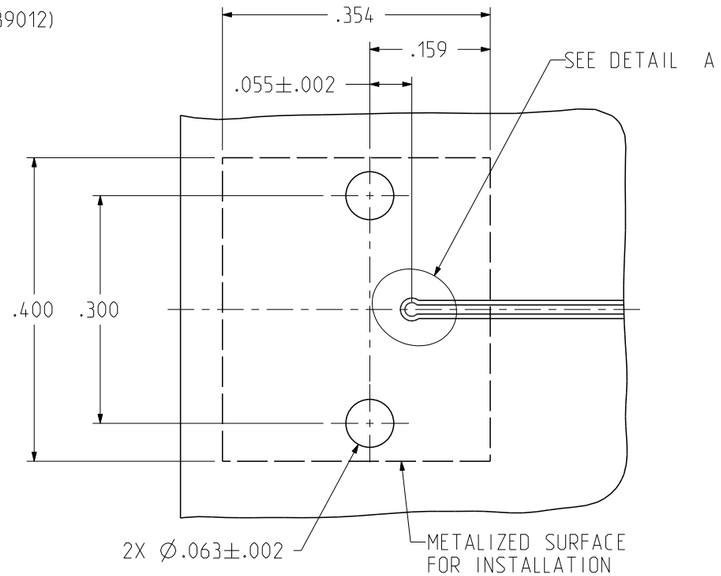


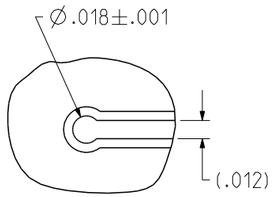




2X #0-80UNF SCREW

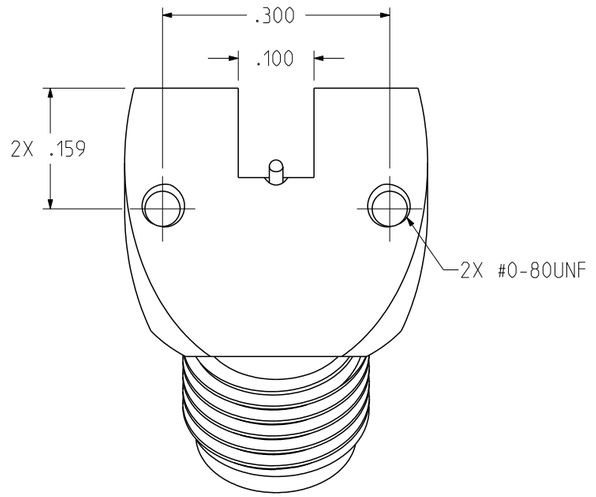
| RECOMMENDED SCREW DIMENSIONS | |
|---|---|
| L | PCB THICKNESS |
| 3/16″(4.76mm) | .030″(0.76mm) to .096″(2.44mm) |




RECOMMENDED PCB LAYOUT
NOTE: THIS PATTERN IS FOR REFERENCE ONLY. PATTERN MAY VARY DEPENDING ON ASSEMBLY PROCESS, BOARD TYPE, OR SPECIFIC ELECTRICAL OR MECHANICAL REQUIREMENTS.




DETAIL A
SCALE 10:1

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INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2018.

UNLESS OTHERWISE SPECIFIED UNITS: INCH
.X ± -
.XX ± -
.XXX ± .005
ANGLE ± 2°

Model No: 142-0711-281/290
RoHS ☑ (EU)/2015/863 COMPLIANT
Cage Code
3RD ANGLE PROJECTION
Drawn by: TOMMY REN
Date: 2023/03/24

JOHNSON

Title: SMA JACK, 45 DEGREE PC MOUNT
Drawing No. 142-0711-281/290
REV. 1
Size B | DO NOT SCALE DRAWING | Workmanship Std: NONE | Sheet 1 OF 1

Please read our datasheet & drawing disclaimer here.