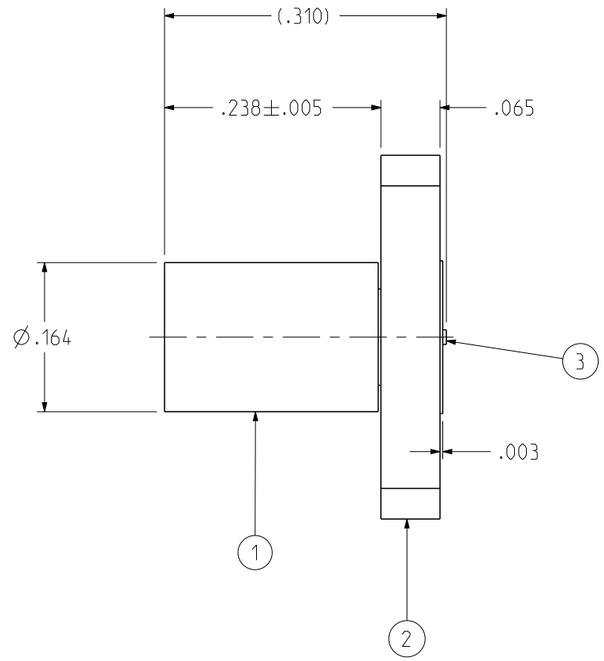
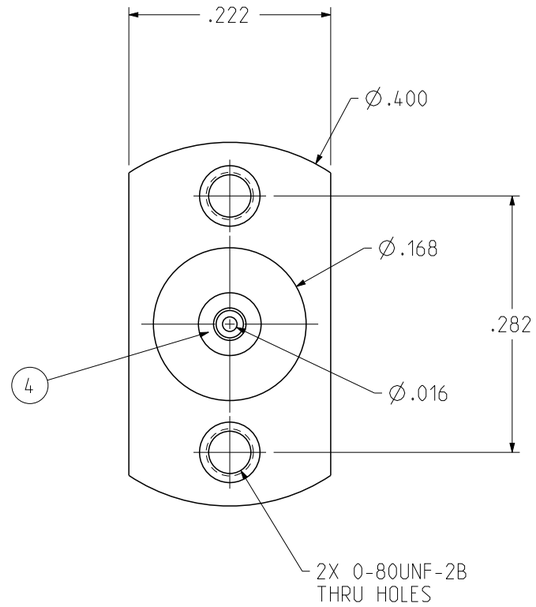
| PART NUMBER | ITEM ① BODY | ITEM ② BASE | ITEM ③ CONTACT | ITEM ④ INSULATOR |
|---|---|---|---|---|
| 127-0701-641 | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .00003 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON |

| REV | ECO | DATE |
|---|---|---|
| 1 | INITIAL RELEASE | 01APR2020 |
| | | |
| | | |




NOTES:

1. ELECTRICAL SPECIFICATIONS:

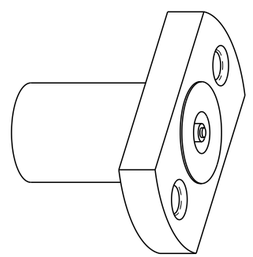
   1.1 IMPEDANCE: 50 OHMS NOMINAL
   1.2 FREQUENCY RANGE: DC-40 GHz
   1.3 VSWR: 1.30 MAX
   1.4 WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
   1.5 DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
   1.6 INSULATION RESISTANCE: 5000 MEGOHM MIN
   1.7 CONTACT RESISTANCE:
      1.7.1 CENTER CONTACT - INTIAL 6.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
      1.7.2 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
   1.8 INSERTION LOSS: $0.12\sqrt{F}$ (GHz) dB MAX, TESTED AT 10 GHz
      CORONA LEVEL: 190 VOLTS MINIMUM AT 70,000 FEET
      RF LEAKAGE: -80 dB TYPICAL, TESTED AT 2.5 GHz
      RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 325 VRMS MIN AT 4 AND 7 MHz

2. MECHANICAL SPECIFICATIONS:

   2.1 INTERFACE DESIGN: IN ACCORDANCE WITH MIL-STD-348A, SERIES SMP
   2.2 ENGAGEMENT FORCE: 15.0 LBS MAX (FULL DETENT)
   2.3 DISENGAGEMENT FORCE: 5.0 LBS MIN (FULL DETENT)
   2.4 CONTACT RETENTION: 1.5 LBS MIN AXIAL FORCE
   2.5 DURABILITY: 100 CYCLES MIN (FULL DETENT)

3. ENVIRONMENTAL:

   3.1 OPERATING TEMPERATURE: -65 °C TO 165 °C
   3.2 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 125°C HIGH TEMP
   3.3 MECHANICAL SHOCK: MIL-STD-202, METHOD 213, CONDITION I
   3.4 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
   3.5 VIBRATION: MIL-STD-202, METHOD 204, CONDITION B
   3.6 MOISTURE: MIL-STD-202, METHOD 106, EXCEPT STEP 7B OMITTED



SCALE 4:1

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INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009.

Model No: 127-0701-641/650

RoHS ☑ (EU)/2015/863 COMPLIANT

Cage Code

3RD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED UNITS: INCH
.XX ± .01
.XXX ± .003
.XXXX ± .0010
ANGLE ± 2°

Drawn by: ROMAN.YAO

Date: 04/01/2020

JOHNSON

Title: 2-HOLE FLANGE MOUNT JACK, PCB COMPRESSION MOUNT, VERTICAL LAUNCH, W/O GROOVE, SMP

Drawing No. 127-0701-641/650 REV. 1

Size B | DO NOT SCALE DRAWING | Workmanship Std: NONE | Sheet 1 OF 1

Please read our datasheet & drawing disclaimer here.