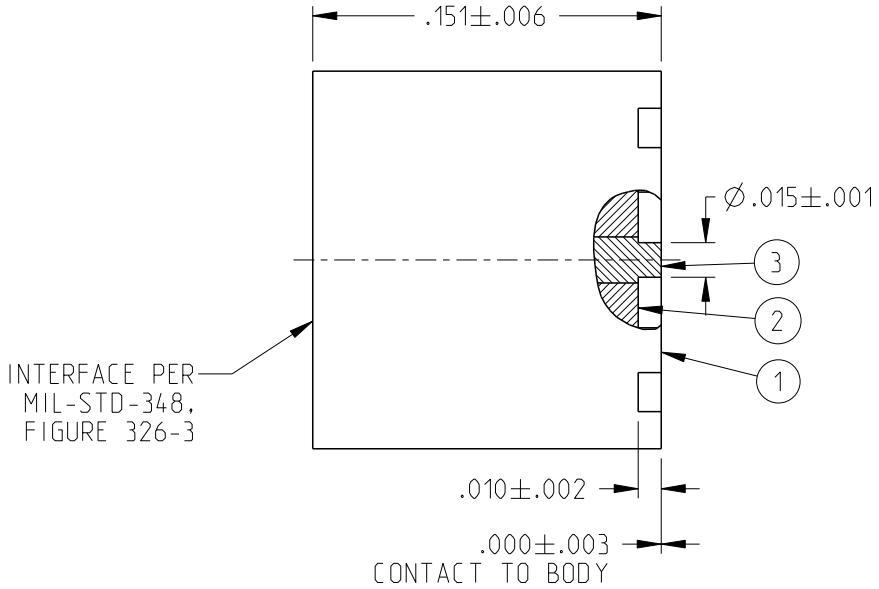
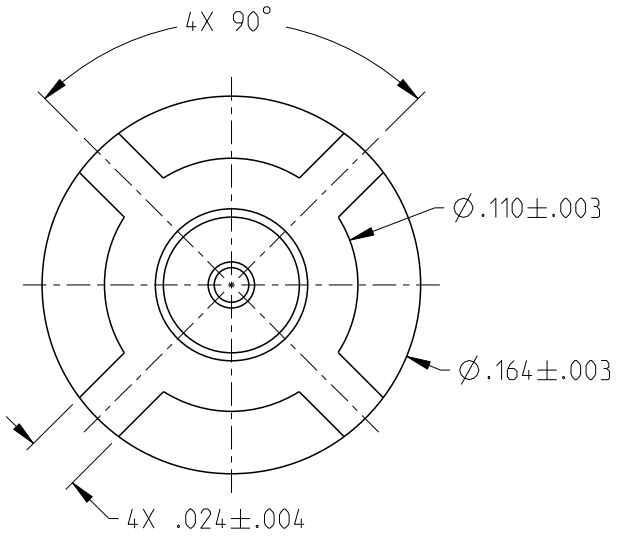
PART NUMBER	ITEM 1 BODY	ITEM 2 INSULATOR	ITEM 3 CONTACT
127-1701-221	BERYLLIUM COPPER GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER	TEFLON	BERYLLIUM COPPER GOLD PL .00003 MIN OVER NICKEL PL .00005 MIN OVER COPPER

REV	ECO	DATE
1	INITIAL RELEASE	12/05/2019



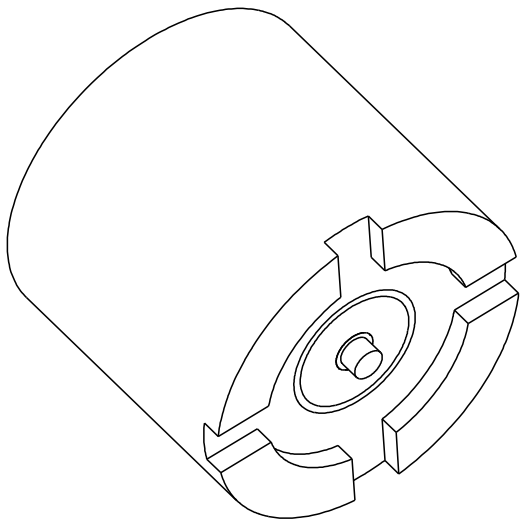


SPECIFICATION:

1. ELECTRICAL SPECIFICATIONS:
 1.1 FREQUENCY RANGE: 0-18 GHz
 1.2 IMPEDANCE: 50 OHMS
 1.3 VSWR: 1.50 MAX TO 18 GHz
 1.4 INSERTION LOSS: 0.12 √F dB MAX (F IN GHz)
 1.5 WORKING VOLTAGE (MAX): 325 VRMS AT SEA LEVEL
 1.6 DIELECTRIC WITHSTANDING VOLTAGE (MIN): 325 VRMS AT SEAL LEVEL
 1.7 INSULATION RESISTANCE (MIN): 5000 MEGOHMS
 1.8 CONTACT RESISTANCE:
  1.8.1 CENTER CONTACT: INITIAL 6 MILLIOHMS MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
  1.8.2 OUTER CONDUCTOR: INITIAL 2 MILLIOHMS MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 1.9 RF LEAKAGE: NOT APPLICABLE

2. MECHANICAL SPECIFICATIONS:
 2.1 ENGAGEMENT FORCE: 10 LBS TYPICAL
 2.2 DISENGAGEMENT FORCE: 2 LBS TYPICAL
 2.3 CONTACT RETENTION: 1.0 LBS MIN AXIAL FORCE
 2.4 DURABLITY(MIN): 500 CYCLES

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



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

Model No: 127-1701-221

RoHS2 ☑ 2011/65/EU

UNLESS OTHERWISE SPECIFIED UNITS: INCH
.XX ±.02
.XXX ±.005
ANGLES ±2°

Cage Code 34078

3RD ANGLE PROJECTION

Drawn by: TOMMY REN

Date: 12/02/2019

JOHNSON

Title: SMP MALE, STRAIGHT SURFACE MOUNT, LIMITED DETENT

Drawing No. 127-1701-221/230 REV. 1

Size A | DO NOT SCALE DRAWING | Workmanship Std: QAD-37007 | Sheet 1 OF 1

Please read our datasheet & drawing disclaimer here.