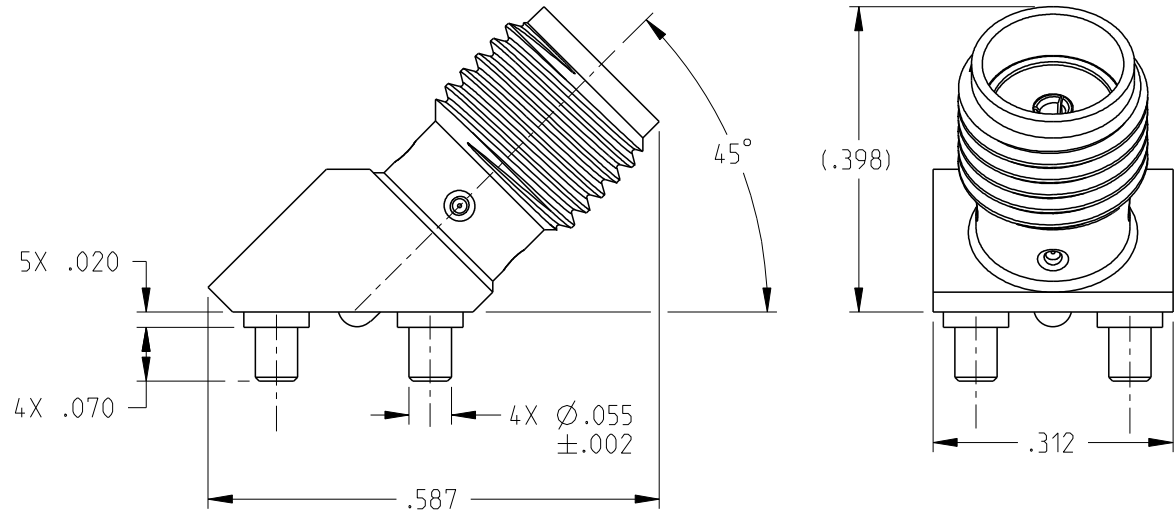
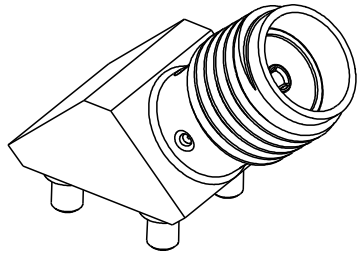


PART NUMBER	ITEM 1 BODY	ITEM 2 INSULATOR	ITEM 3 CONTACT	ITEM 4 GROUND LEGS
142-0711-271	GOLD PLATED BRASS	TEFLON	GOLD PLATED BERYLIUM COPPER	GOLD PLATED BERYLIUM COPPER

REV	ECO	DATE
2	EC -1901002	8/15/2018
3	EC -1909021	9/17/2019



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ELECTRICAL SPECIFICATIONS:

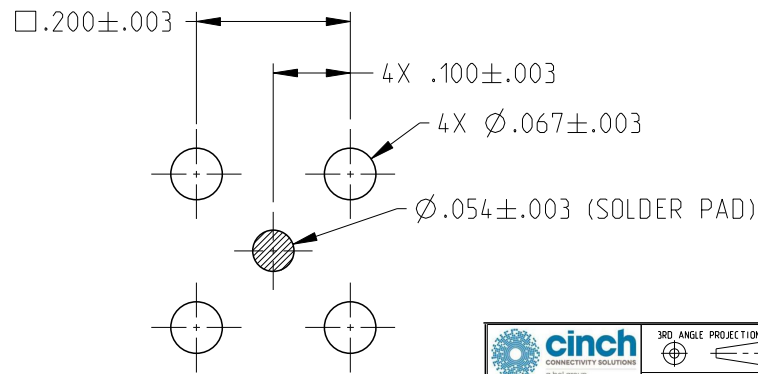
- 1.1 FREQUENCY RANGE: 0-18 GHz
- 1.2 IMPEDANCE: 50 OHMS
- 1.3 VSWR: 1.50 MAX
- 1.4 WORKING VOLTAGE (MAX): 170 VRMS AT SEA LEVEL
- 1.5 DIELECTRIC WITHSTANDING VOLTAGE (MIN): 500 VRMS AT SEAL LEVEL
- 1.6 INSULATION RESISTANCE (MIN): 1000 MEGOHMS
- 1.7 CONTACT RESISTANCE:
 - 1.7.1 CENTER CONTACT: INITIAL 3.0 MILLIOHMS MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
 - 1.7.2 OUTER CONDUCTOR: INITIAL 2.0 MILLIOHMS MAX.
- 1.8 CORONA LEVEL (MIN): 125 VOLTS AT 70,000 FEET
- 1.9 RF HIGH POTENTIAL WITHSTANDING VOLTAGE (MIN): 335 VRMS AT 4 & 7 MHz

2. MECHANICAL SPECIFICATIONS:

- 2.1 ENGAGE/DISENGAGE TORQUE (MAX): 2 IN-LBs
- 2.2 MATING TORQUE: 7-10 IN-LBs
- 2.3 CONTACT RETENTION: 6 LBs MIN AXIAL FOR ON MATING END, 4 IN-OZ MIN RADIAL TORQUE
- 2.4 DURABILITY (MIN): 500 CYCLES

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.

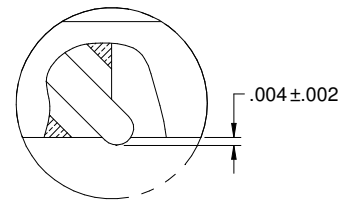
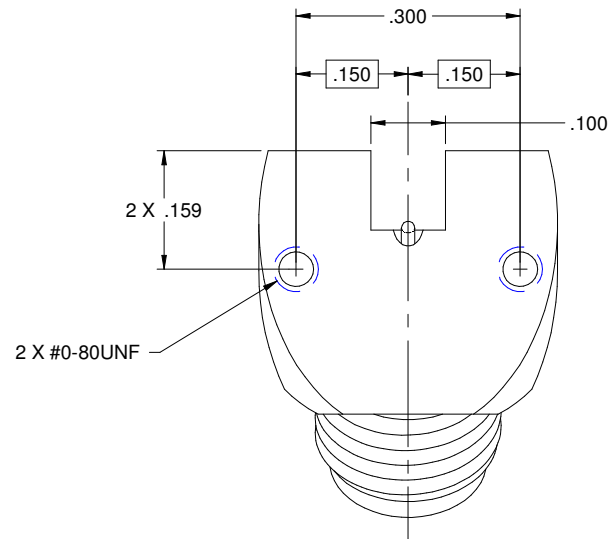
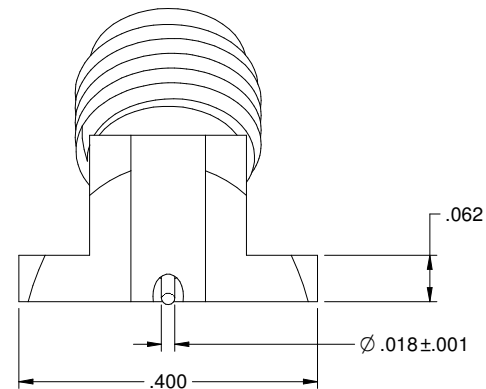
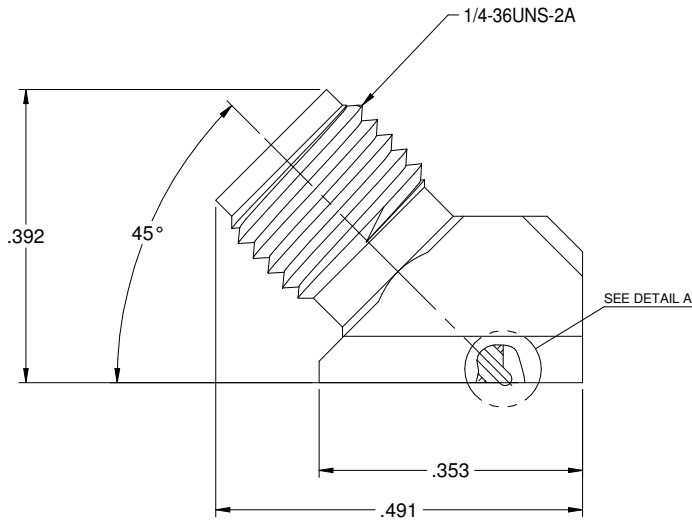


MOUNTING LAYOUT

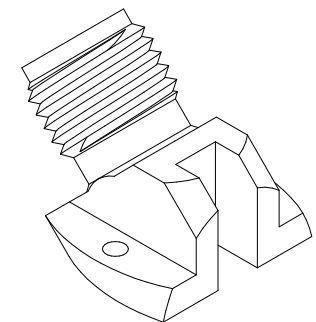
 <small>This PROPRIETARY Document is property of Cinch Connectivity Solutions. It is confidential in nature, non-transferable, and issued with the clear understanding that it is not traced or copied without permission and is returnable upon demand.</small> <small>INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009.</small>	<small>3RD ANGLE PROJECTION</small> 	JOHNSON	
	RoHS2 <input checked="" type="checkbox"/> <small>2011/65/EU</small>	<small>Title:</small> SMA JACK, 45 DEGREE PC MOUNT	
<small>UNLESS OTHERWISE SPECIFIED UNITS: INCH</small> .XX ±.02 .XXX ±.010 ANGLES ±2°	<small>Model No.</small> 142-0711-271/280	<small>Size</small> A	<small>Date:</small> 1/22/2018 <small>Sheet</small> 1 OF 1

MODEL NUMBER
145-0701-221

REV	ECO	DATE
0B	ECO-19-XXXX	6/10/2019



DETAIL A
20:1



SPECIFICATION:

ELECTRICAL:

IMPEDANCE: 50 OHMS
 FREQUENCY RANGE: 0-40 GHz
 VSWR: 1.25 MAX DC-26.5GHz, 1.5MAX 26.5GHz-40GHz
 WORKING VOLTAGE: 250 VRMS MAX AT SEA LEVEL
 DIELECTRIC WITHSTANDING VOLTAGE: 750 VRMS MIN AT SEA LEVEL
 INSULATION RESISTANCE: 5000 MEGOHM MIN
 CONTACT RESISTANCE:
 CENTER CONTACT - INITIAL 3 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 OUTER CONDUCTOR - INITIAL 2 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 RF LEAKAGE: -90dB TYPICAL AT 2.5GHz

MECHANICAL:

ENGAGEMENT/DISENGAGEMENT FORCE: 2 INCH-POUNDS MAX
 CONTACT RETENTION: 6 LBS MIN AXIAL FORCE
 MATING TORQUE: 7 TO 10 INCH-POUNDS
 DURABILITY: 500 CYCLES MIN

ENVIRONMENTAL:

OPERATING TEMPERATURE: -40 TO 85 °C
 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B
 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

MATERIAL AND FINISH:

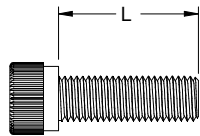
BODY: GOLD PLATED BRASS
 CENTER CONTACT: GOLD PLATED BERYLLIUM COPPER
 INSULATOR: PTFE (TEFLON)

	SEE NOTE	Model No. 145-0701-221	File:
	SEE NOTE	RoHS2 201185EU	2.92MM 45 DEGREE PC MOUNT JACK
SEE NOTE	XX ±.02 ANX ±.005 ANGLES ±2 DEG	Design by R.SHEN	Drawing No. 145-0701-221
SEE NOTE	DATE: 6/10/19	Size C	Rev 0B
		DO NOT SCALE DRAWING	Sheet 1 of 2

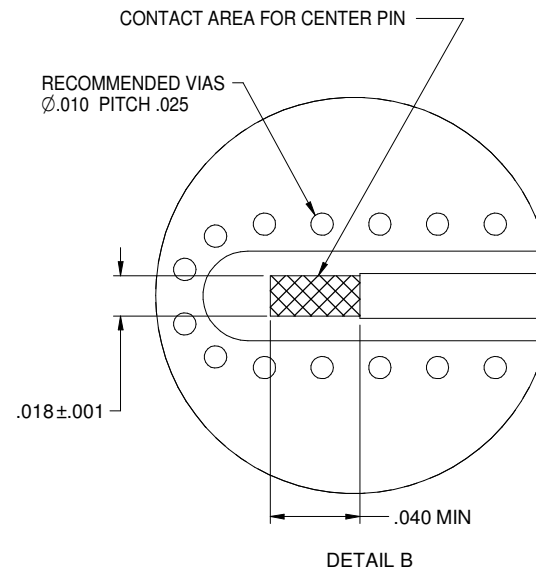
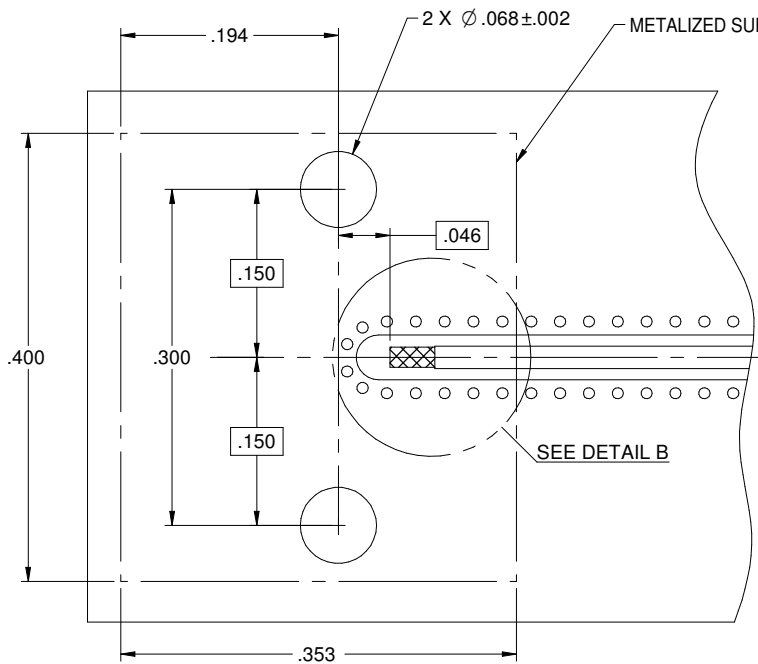
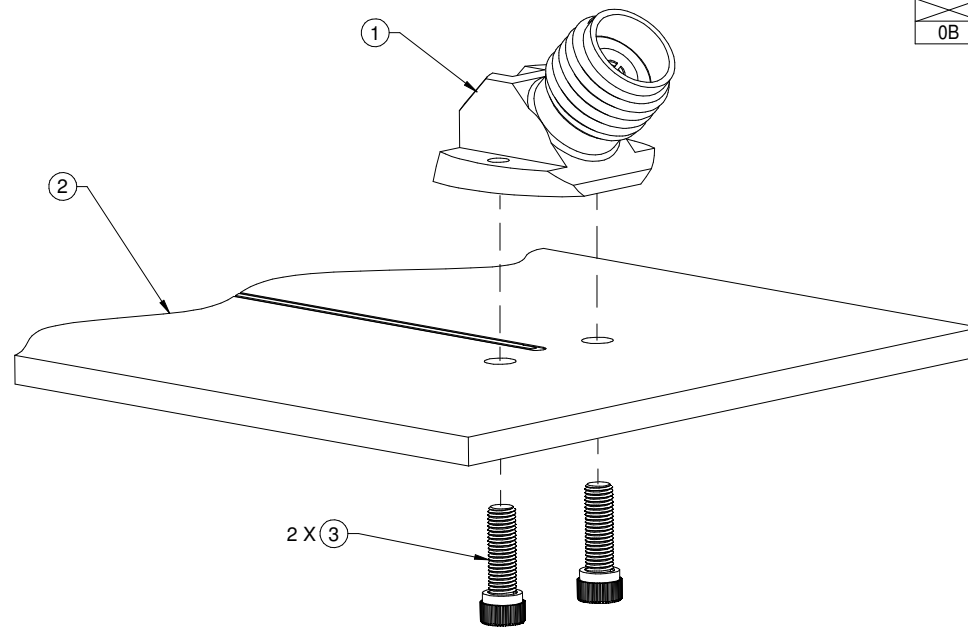
REV	ECO	DATE
0B	ECO-19-XXXX	6/10/2019

PC MOUNTING INSTRUCTIONS:

- A. POSITION THE CONNECTOR(1) ON THE PC BOARD(2).
- B. USING MOUNTING SCREWS #0-80 UNF(3) ATTACH CONNECTOR TO PCB. SLIGHTLY ADJUST THE LOCATION AND MAKE SURE THE CONTACT PIN IS CENTERED ON THE SIGNAL TRACE.
- C. TIGHTEN SCREWS AND TORQUE FORCE SHOULD NOT EXCEED 0.8 IN-LBS.



RECOMMENDED SCREW DIMENSIONS	
L	PCB THICKNESS
3/16"(4.76mm)	.030"(0.76mm) to .096"(2.44mm)
1/4"(6.35mm)	.070"(1.78mm) to .165"(4.19mm)
3/8"(9.53mm)	.170"(4.32mm) to .295"(7.49mm)



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

	SEE NOTE	Model No. 145-0701-221	File:
	SEE NOTE	RoHS2 201165EU	2.92MM 45 DEGREE PC MOUNT JACK
SEE NOTE	XX +.02 XXX +.005	Drawn by: R.SHEN	Drawing No. 145-0701-221
SEE NOTE	ANGLES: 45 DEG	Date: 6/10/19	Rev: 0B
		Size: C	DO NOT SCALE DRAWING
			Sheet 2 of 2