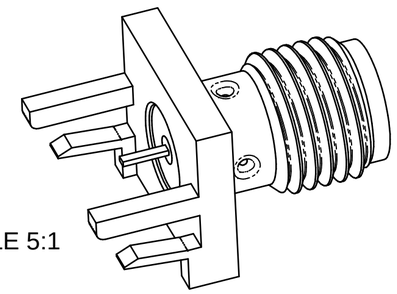
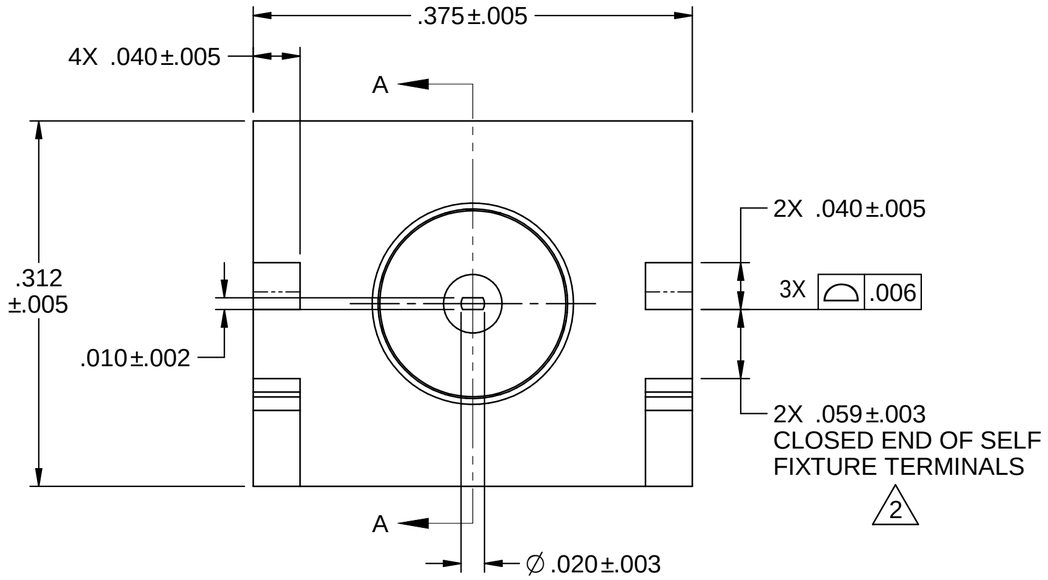
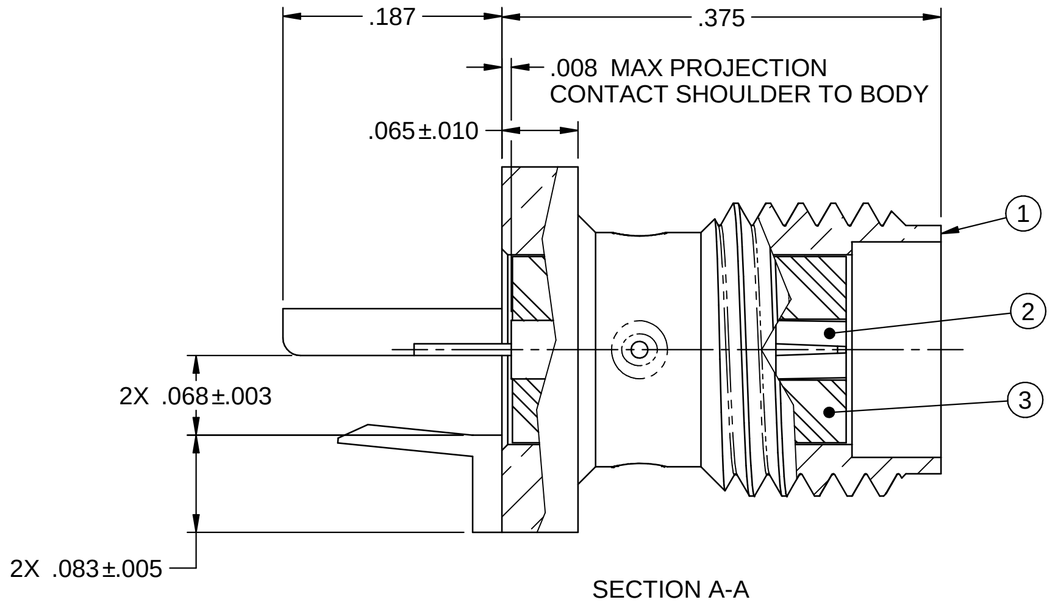
PART NUMBER	ITEM 1 BODY	ITEM 2 CONTACT	ITEM 3 INSULATOR
142-0791-821	BRASS GOLD PL .00001 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON

ZONE	REV	ECO	DESCRIPTION	APPR.	DATE
	1	52062		TAK	10/13/09
	1A	53594		TAK	1/16/12



SCALE 5:1





SECTION A-A

NOTES: UNLESS OTHERWISE SPECIFIED.

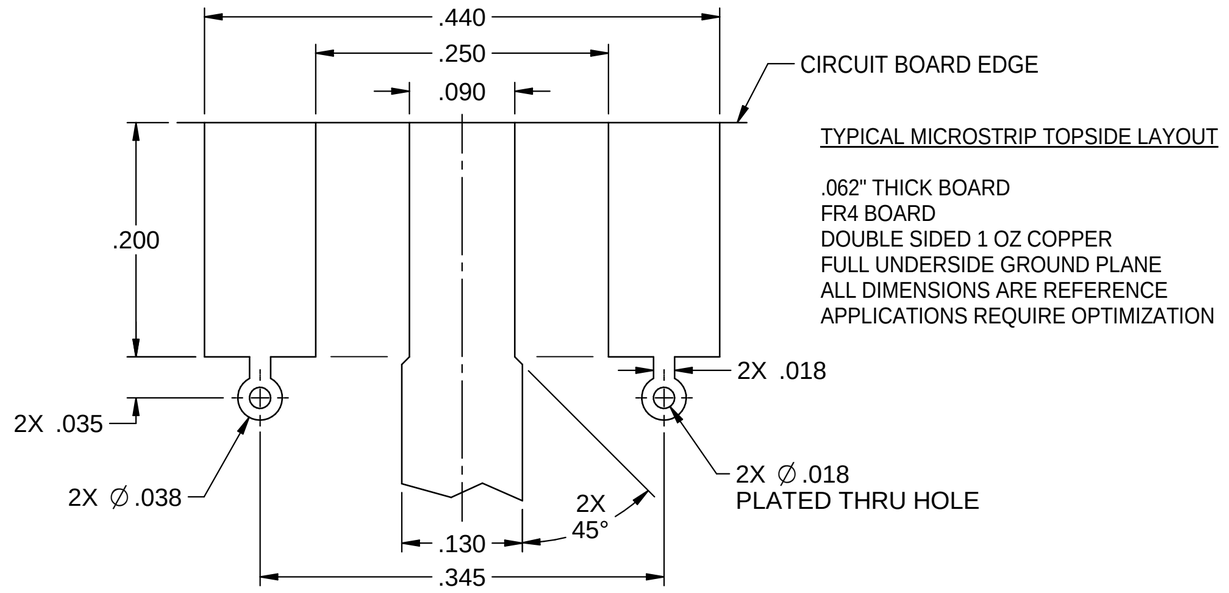
1. SPECIFICATIONS:

ELECTRICAL:
- IMPEDANCE: 50 OHMS
- FREQUENCY RANGE: 0-18 GHz (10 GHz MAX TYPICAL CIRCUIT BOARD TRANSITION)
- WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
- DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
- INSULATION RESISTANCE: 5000 MEGOHMS MIN
- CONTACT RESISTANCE: CENTER CONTACT - INITIAL 3 MILLIOHMS MAX
  AFTER ENVIRONMENTAL - 4 MILLIOHMS MAX
  OUTER CONDUCTOR - INITIAL 2.0 MILLIOHMS MAX
  AFTER ENVIRONMENTAL - N/A
- CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET
- RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 670 VRMS MIN AT 4 AND 7 MHz

MECHANICAL:
- ENGAGEMENT/DISENGAGEMENT TORQUE: 2 INCH POUNDS MAX
- MATING TORQUE: 7-10 INCH POUNDS
- CONTACT RETENTION: 6 LBS MIN AXIAL FORCE
  4 OZ-IN MIN RADIAL TORQUE
- DURABLITY: 500 CYCLES MIN

ENVIRONMENTAL:
- (MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)
- THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B
- OPERATING TEMPERATURE: -65°C TO 165°C
- 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

2. ALL CONNECTOR TERMINALS SHALL BE SOLDERED TO THE CIRCUIT BOARD.



TYPICAL MICROSTRIP TOPSIDE LAYOUT

.062" THICK BOARD
FR4 BOARD
DOUBLE SIDED 1 OZ COPPER
FULL UNDERSIDE GROUND PLANE
ALL DIMENSIONS ARE REFERENCE
APPLICATIONS REQUIRE OPTIMIZATION

EMERSON Network Power
Connectivity Solutions

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UNLESS OTHERWISE SPECIFIED
UNITS: INCHES

Model No. 142-0791-821/830

Cage Code 34078

3RD ANGLE PROJECTION

Drawn by JDS | Date 2/6/07

Approved by TAK | Date 10/13/09

JOHNSON

Title: SMA JACK SELF FIXTURE END LAUNCH

Material:

Drawing No. 142-0791-821/830

Rev. 1A

Finish:

Size C | DO NOT SCALE DRAWING | Scale 10:1 | Sheet 1 of 2

Please read our datasheet & drawing disclaimer here.