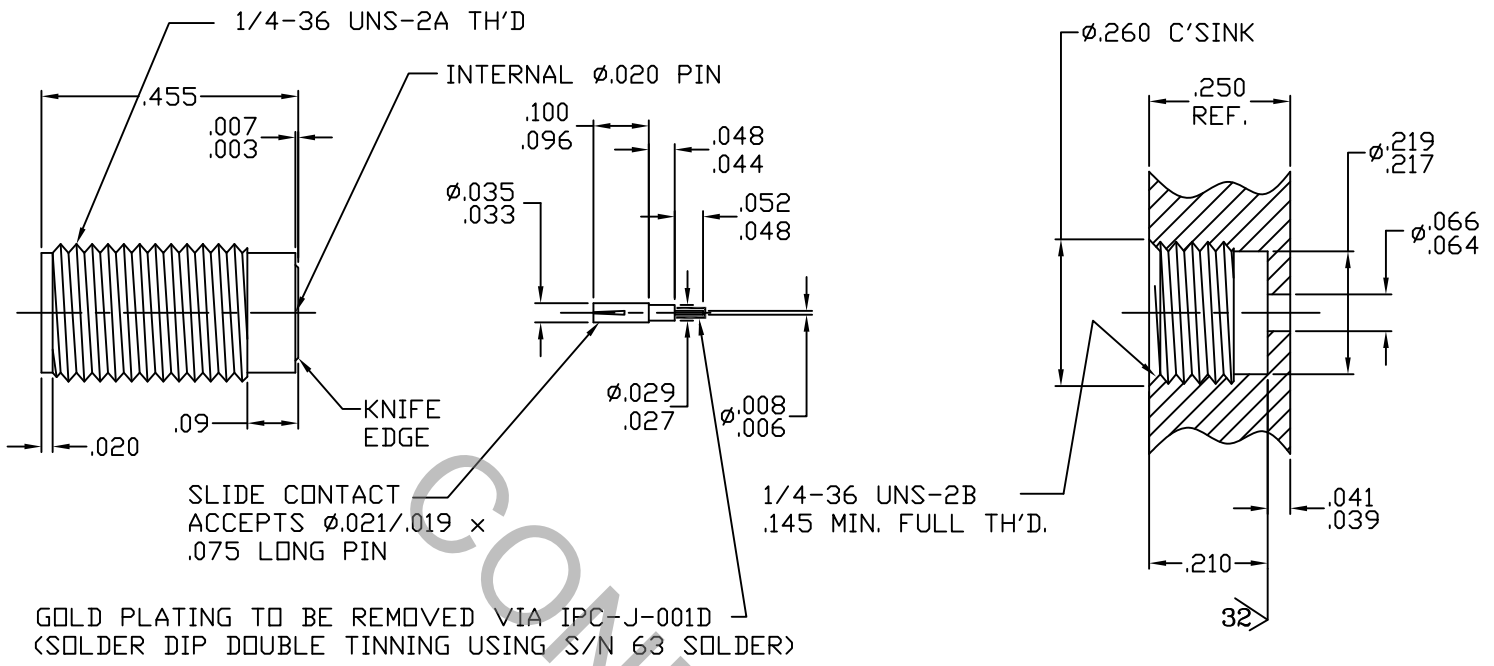


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 310-2 (SMA, JACK).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX) *	_____	1.05 + .006 x FGHz.
INSERTION LOSS (dB MAX)	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	12-1131	2/7/12	TS	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030		X ° ± 1 0'	TITLE      SMA, JACK, HERMETICALLY SEALED KNIFE EDGE, SLIDING CONTACT (SOLDER DIPPED)
				.XX ± .010	±/64	X ° X' ± 15'	
				.XXX ± .005			DWG. NO.    9930-0441-6202
				DRAWN    TS    DATE    2/7/12	APPROVED    DC    DATE    2/7/12		
				CODE IDENT.	SHEET 1 OF 2		
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 6.0 LBS.

MAX RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ 48.0 INTERFACE; 32.0 SLIDE

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0 INTERFACE; 1.0 SLIDE

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

### RECOMMENDED MATING TORQUE

● INTERFACE \_\_\_\_\_ 7 - 10 IN. LBS.

● PACKAGE \_\_\_\_\_ 20 - 23 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65° c TO +200° c )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 190 VRMS )

HERMETICITY \_\_\_\_\_  $1 \times 10^{-8}$  cc/SEC.

## 5. MATERIAL

BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACTS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D1710-02, TYPE 1, GRADE 1, CLASS B.

GLASS PIN \_\_\_\_\_ KOVAR PER MIL-I-23011

GLASS \_\_\_\_\_ CORNING 7070

METAL GASKET \_\_\_\_\_ CARBON STEEL PER B1113, CASE HARDENED

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

GLASS PIN \_\_\_\_\_ GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000150 MIN. THK.) OVER COPPER PER AMS 2418, (.000010 MIN. THK.)

CONTACTS \_\_\_\_\_ GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000050 MIN. THK.) OVER COPPER PER AMS 2418, (.000010 MIN. THK.)

METAL GASKET \_\_\_\_\_ NICKEL PER MIL-C-26074, CLASS 1, (.0001 MIN. THK.) OVER  
COPPER PER MIL-C-14550, CLASS 4

GLASS AND INSULATOR \_\_\_\_\_ N/A

SLIDING CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000050 MIN. THK.) OVER COPPER PER AMS 2418, (.000010 MIN. THK.)  
(SOLDER DIP DOUBLE TINNING USING S/N 63 SOLDER TO REMOVE THE GOLD)