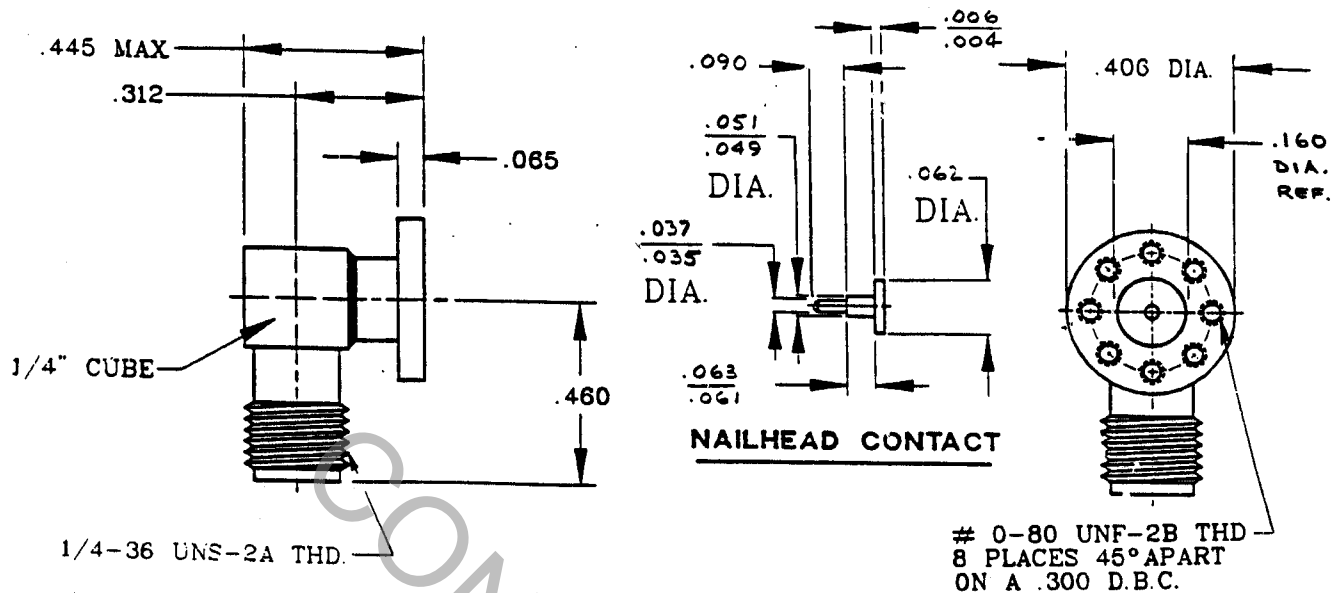


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX) *	_____	1.05 + .010 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX VRMS)	_____	335
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX VRMS)	_____	1.500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10.000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES			INCORPORATED GEORGETOWN MA 01833
				DECIMALS	FRACTIONAL	ANGULAR	
-	930	3/93	GL	.XX ± .030 .XX ± .010 .XXX ± .005	±1/64	X° ± 1'0" X° X' ± 15"	
				DRAWN	GL	DATE	3/93
				APPROVED	DGG	DATE	
				CODE IDENT.			TITLE SMA JACK. R/A ROUND FLANGE SURFACE MOUNT
				2J899	SHEET 1 OF 2	DWG. NO.	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 6.0 LBS.  
MAX RADIAL TORQUE \_\_\_\_\_ 4.0 IN. OZ.  
CENTER CONTACT AXIAL FORCES  
● INSERTION (MAX OUNCES) \_\_\_\_\_ 48.0  
● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0  
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) \_\_\_\_\_ 2.0  
CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500  
RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 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. ) ( 375 VRMS )

## 5. MATERIAL

BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.  
INSULATOR \_\_\_\_\_ TEFLON PER D 1457.

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1  
(.00005 MIN. THK.) OVER NICKEL PER QQ-N-290 CLASS 1  
(.000150 MIN. THK.) OVER COPPER PER MIL-C-14550  
CONTACT \_\_\_\_\_ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2  
(.000100 Minimum Thickness) OVER NICKEL per  
QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000010 Minimum Thickness).  
INSULATOR \_\_\_\_\_ N/A