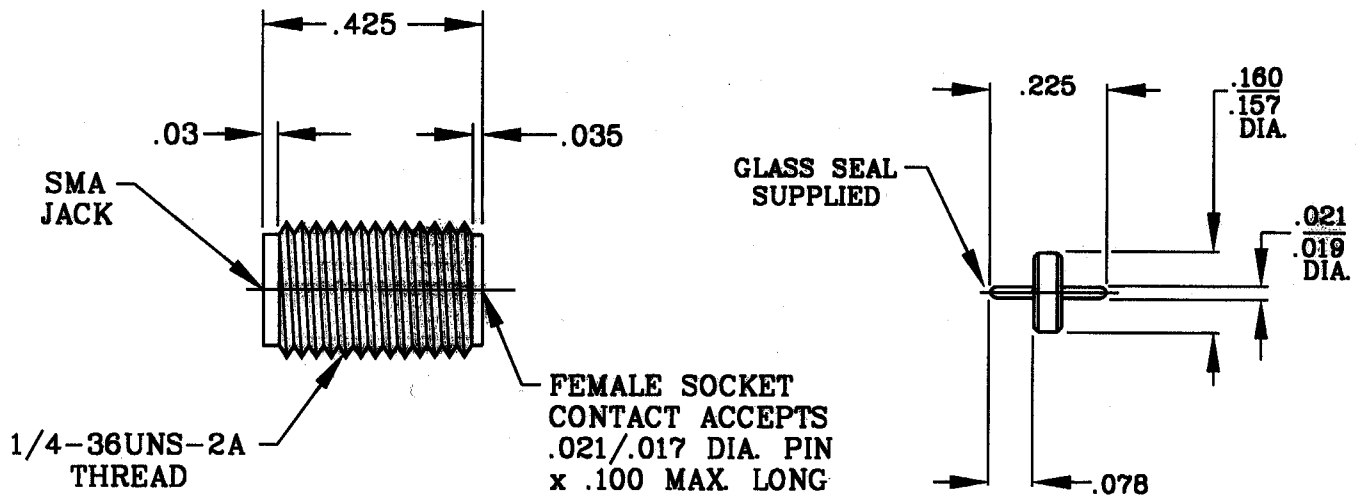


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 20.0 GHz
VSWR (MAX) *	_____	1.05 + .008 x FGHz
INSERTION LOSS (dB MAX) *	_____	.03 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)	_____	-85°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	8.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA 01836
				DECIMALS	FRACTIONAL	ANGULAR	
AA	97-0085	2/97	TS	X ± .030	±/64	X ° ± 10'	<b>TITLE</b> SMA, JACK FIELD REPLACEABLE WITH GLASS SEAL
AB	03-1231	2/20/03	TS	X ± .030	±/64	X ° ± 16'	
				DRAWN	BD	DATE 2/10/97	<b>DWG. NO.</b> 9930-0026-6222
				APPROVED	TS	DATE 2/10/97	
				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) \_\_\_\_\_ INTERFACE 48.0, REAR 32.0  
● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 2.0, REAR 1.0  
CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500  
RECOMMENDED MATING TORQUE  
INTERFACE \_\_\_\_\_ 7-10 INCH LBS.  
PACKAGE \_\_\_\_\_ 27-30 INCH 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: \_\_\_\_\_ BEAD SHALL NOT EXCEED A LEAK RATE OF 10-8 cc/SEC.  
TRACER GAS OF HELIUM AT A PRESSURE DIFFERENTIAL OF 15 P.S.I.

## 5. MATERIAL

BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY  
UNS C 17800, TEMPER TD04  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91  
GLASS SEAL:  
OUTER RING & PIN \_\_\_\_\_ KOVAR PER MIL-I-23011  
GLASS \_\_\_\_\_ CORNING 7052

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER QQ-P-35C, TYPE VI.  
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  
GLASS SEAL (OUTER RING & PIN) \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE III, GRADE A, CLASS 1  
(.000060 MIN. THK.) OVER NICKEL PER QQ-N-290.

**dynawave**  
INCORPORATED

SHEET 2 OF 2

DWG.  
NO.

9930-0026-6222

REV.

AB