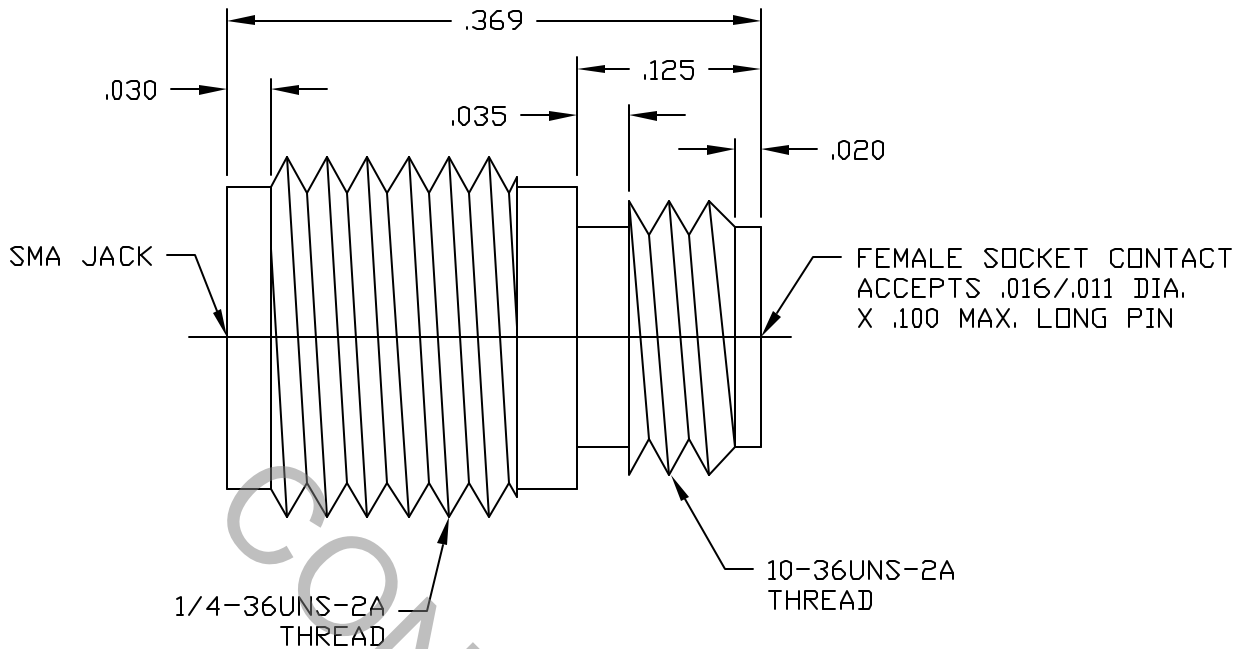


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER ML-STD-348A (Fig. 310.2) SMA, JACK AND DYNAWAVE SPECIFICATION MD-99.

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.05 + .010 FGHz.
INSERTION LOSS (dB MAX.) *	_____	.03 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)	_____	1000
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
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 TOLERANCES			 INCORPORATED GEORGETOWN MA. 01833
				DECIMALS	FRACTIONAL	ANGULAR	
AA	02-0689	8/6/02	DGG	X ± .030 XX ± .010 XXX ± .005	±/64	X° ± 1' 0" X° ± 15'	TITLE SMA, JACK SCREW-IN
BA	02-0730			SURFACE ROUGHNESS 63 $\sqrt{\text{ML-STD 10}}$ .			
				DRAWN	GE	DATE 8/6/02	DWG. NO. 9930-0081-6216
				APPROVED	DGG	DATE 8/6/02	
				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 ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) \_\_\_\_\_ 2.0

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

RECOMMENDED MATING TORQUE

INTERFACE \_\_\_\_\_ 7 - 10 IN. LBS.  
PACKAGE \_\_\_\_\_ 27 - 30 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. ) ( 250 VRMS )

## 5. MATERIAL

BODY \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR \_\_\_\_\_ TEFLON PER MIL-P-19468, AND L-P-403, TYPE I

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE I

CONTACT \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE G, CLASS 2.6  
(.000100 Minimum Thickness) OVER NICKEL per  
QQ-N-290, (.000050 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATOR \_\_\_\_\_ N/A