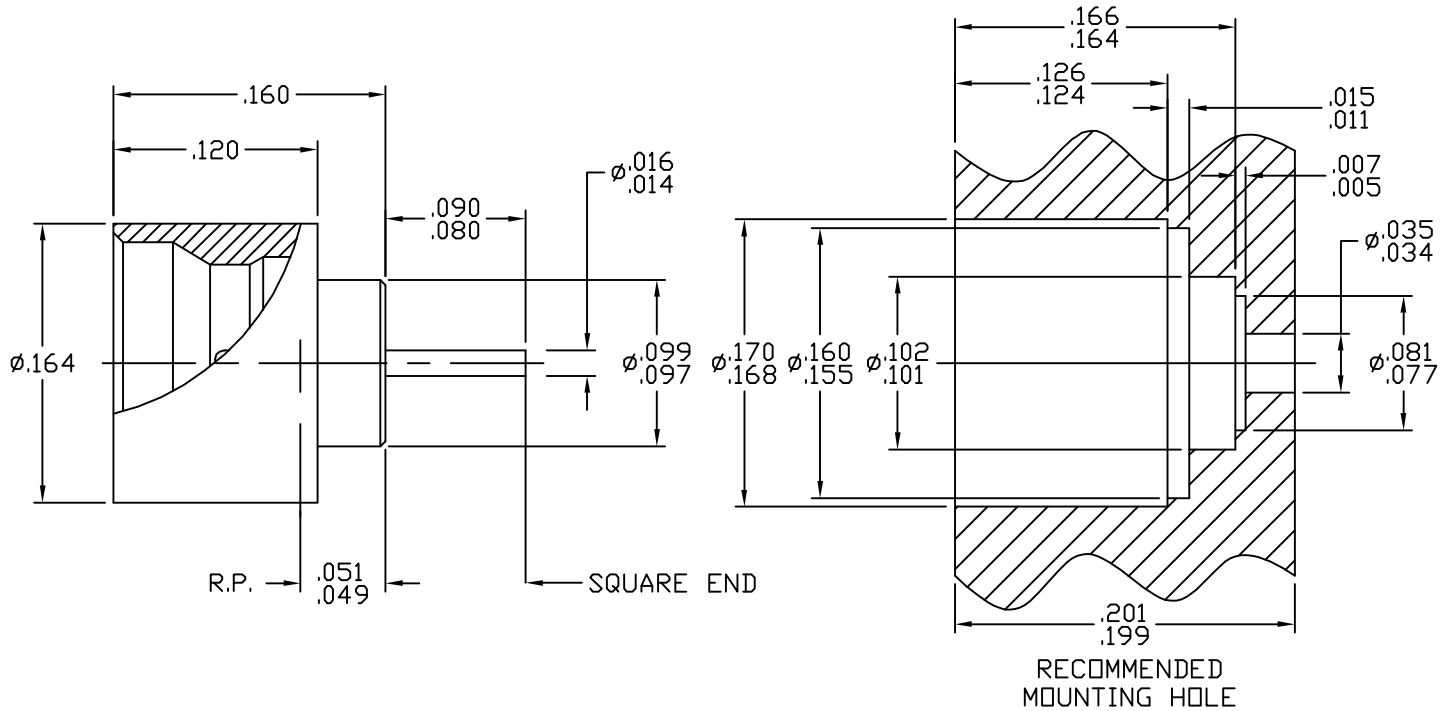


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-21 (SMP MALE)  
AND MIL-STD-348A-326.3

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 39.0 GHz.
VSWR (MAX) *	_____	1.02 + .003 x FGHz.
INSERTION LOSS (dB MAX) *	_____	.045 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
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)	_____	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	05-1734	7/19/05	DC	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° +1'0" X° X' ± 15"	
AB	05-1738	7/20/05	DC	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN TS	DATE	7/19/05	TITLE SMP, PLUG (LIMITED DETENT) HERMETICALLY SEALED SHROUD SOLDER MOUNT
				APPROVED DC	DATE	7/19/05	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 2147-0435-7400
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ 2.5 IN. OZ.

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 10.0 LBS.
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 5.0 LBS.

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ N/A

## 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

CONNECTOR BODY AND GLASS PIN \_\_\_\_\_ KOVAR PER MIL-I-23011

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

## 6. FINISH

CONNECTOR BODY AND GLASS PIN \_\_\_\_\_ GOLD PER MIL-G-45204,TYPE III,GRADE A, CLASS 1 (.000050 MIN. THK.)  
OVER NICKEL PER MIL-P-27418 (.000100/.000150 THK.)  
OVER NICKEL (WOODS OR WATTS),(.00001 MIN. THK.)

GLASS \_\_\_\_\_ N/A