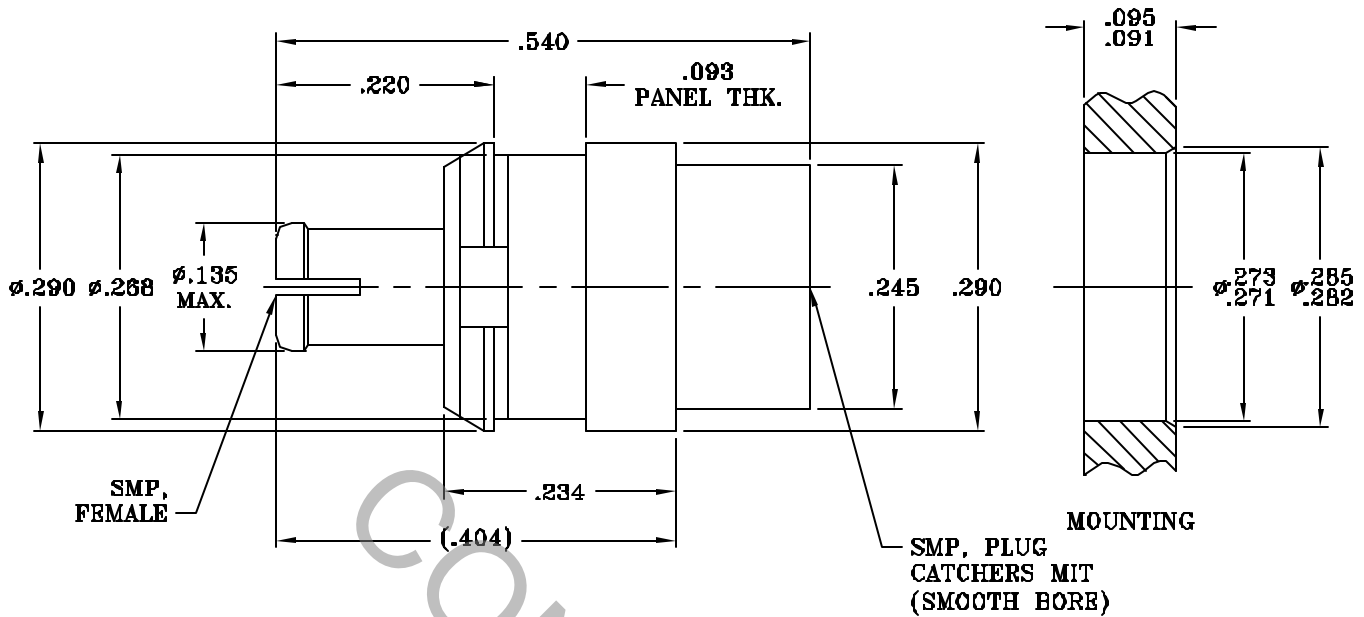


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS FOR SMP, FEMALE PER MIL-STD-348, Fig. 326-1 AND DYNAWAVE SPECIFICATION MD-20, INTERFACE DIMENSIONS FOR SMP, MALE PER MIL-STD-348, Fig. 328-5 AND DYNAWAVE SPECIFICATION MD-21-9-1.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40 GHz.
VSWR (MAX.) *	1.05 + .005 x FGHz
INSERTION LOSS (dB MAX.)*	.04 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	65 dB
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO + 165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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				 HAVERRILL MA. 01835
AA	04-2298	11/2/04	TS	DECIMALS X ± .030 XX ± .010 XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1° 0' X° X' ± 16'		
				DRAWN	TS	DATE	11/2/04	TITLE SMP, FEMALE TO SMP, MALE SMOOTH BORE, CATCHERS MIT FLOAT MOUNT, PANEL ADAPTER
				APPROVED	DC	DATE	11/2/04	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO.	1160-2021-5403
				2J899				

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 3.5 LBS.
 - MIN. RADIAL TORQUE _____ N/A
- CONNECTOR ENGAGEMENT FORCE
- INSERTION (MAX. LBS.) _____ 4.0 (SMOOTH BORE)
 - WITHDRAWAL (MIN. LBS.) _____ 0.5 (SMOOTH BORE)
- CONNECTOR DURABILITY (MIN. MATING) _____ 250
- CONNECTOR SPRING FORCE _____ 8.0 MAX LBS., 4.0 MIN. LBS

4. ENVIRONMENTAL

- TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 °c TO + 165 °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 108, 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.) (125 VRMS)

5. MATERIAL

- FLOAT MOUNT BODY, BUSHING AND _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
SPRING RING
- CONNECTOR BODY, SNAP RING _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
AND CENTER CONTACT No. UNS C17300, TEMPER TD04.
- SPRING _____ SPRING STEEL
- DIELECTRIC STOP _____ ULTIM
- INSULATOR _____ TEFLON PER ASTM D 4894-91

6. FINISH

- FLOAT MOUNT BODY, BUSHING AND _____ PASSIVATE PER QQ-P-35C, TYPE 6.
SPRING RING
- CONNECTOR BODY AND _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25
SNAP RING (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000160 MIN. THK.) OVER COPPER PER
MIL-C-14550 (.000010 MIN. THK.)
- CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290,
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.).
- INSULATOR, SPRING AND _____ N/A
DIELECTRIC STOP