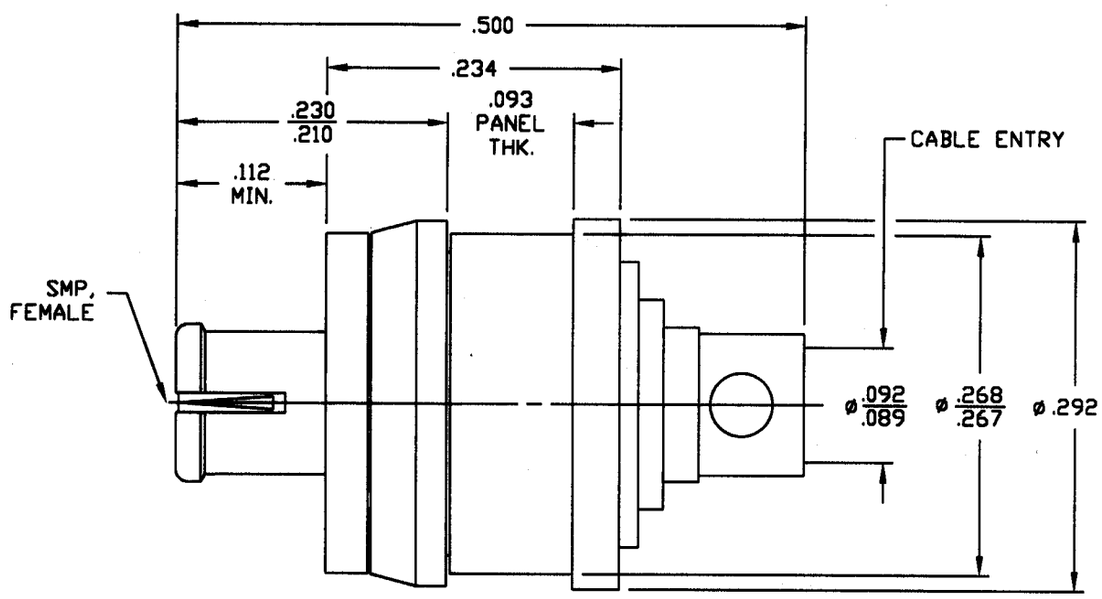
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20 AND MIL-STD 348, FIG. 326-1.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{FGHz}$.
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

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REV.	DCN NO.	DATE	APP.
AA	01-1174	12/11/01	DGG
AB	02-0238	3/29/02	T.S.
AC	02-0562	7/1/02	B.N.
AD	02-0742	9/30/02	BN

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X°± 1° 0' X° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN DGG DATE 12/11/01

APPROVED DGG DATE 12/11/01

TITLE SMP, FEMALE
FLOAT, PANEL MOUNT
DIRECT SOLDER TO
.085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2060-8520-5441

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — N/A
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCE
- INSERTION (MAX. LBS.) — 2.0
- WITHDRAWAL (MIN. LBS.) — N/A

CONNECTOR DURABILITY (MIN. MATING) — 250

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 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.) (125 VRMS)

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5. MATERIAL

FLOAT MOUNT BODY, RETAINING RING AND WASHER	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND A.
CONNECTOR BODY, CENTER CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
COMPRESSION SPRING	SPRING STEEL PER ASTM A684.
INSULATOR	TEFLON PER ASTM D 4894-91

6. FINISH

CONNECTOR BODY	GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 OVER NICKEL PER QQ-N-290, CLASS 1.
CONTACT	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)
RETAINING RING	NICKEL per QQ-N-290, CLASS 1 (.000200 MIN. THK.) OVER COPPER per MIL-C-14550 (.000010 MIN. THK.).
FLOAT MOUNT BODY, RETAINING RING AND WASHER	PASSIVATE PER QQ-C-35C, TYPE V1.
COMPRESSION SPRING	NICKEL PER MIL-C-26074, CLASS 1
INSULATOR	N/A