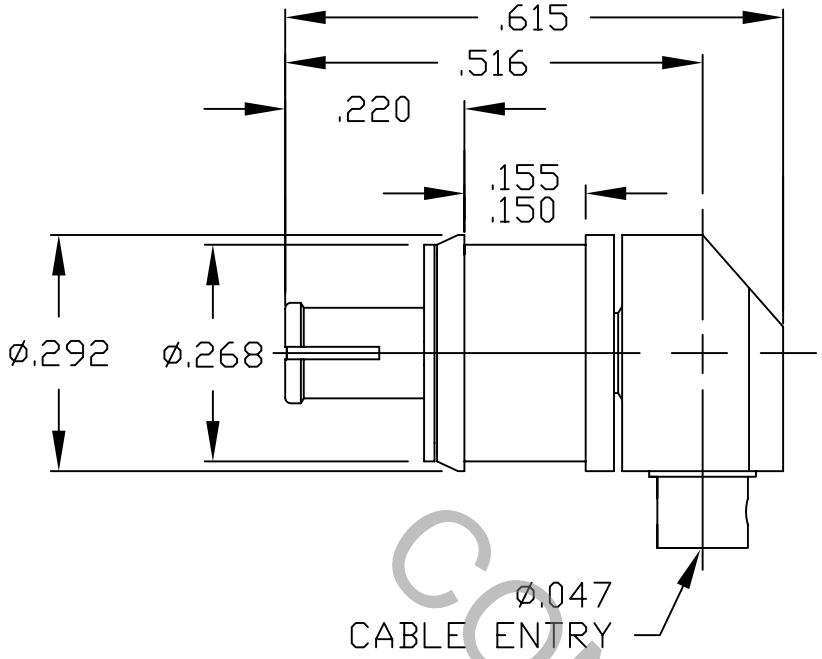
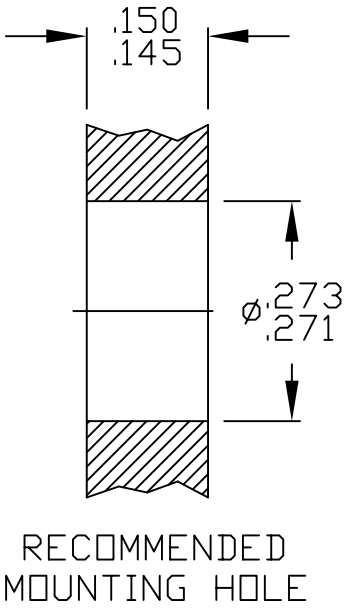
SPECIFICATION CONTROL DRAWING





CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER MIL-STD. 348A, Fig. 326.1 (SMP, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.5 GHz.
VSWR (MAX.) ❋	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	187
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.
AA	08-1219	2/28/08	TS

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 TS DATE 2/28/08

APPROVED DC DATE 2/28/08

TITLE SMP, JACK, R/A FLOAT, PANEL MOUNT DIRECT SOLDER TO .047 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2061-4720-5441

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 4.0 LBS
- MIN. RADIAL TORQUE — 6.0 IN–OZ

CONNECTOR ENGAGEMENT FORCE
- INSERTION (MAX. LBS.) — 2.0*
- WITHDRAWAL (MIN. LBS.) — .5*

CONNECTOR DURABILITY (MIN. MATING) — 1,000

* WHEN MATED WITH A SMOOTH BORE SMP PER MIL–STD–348

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 BODYS, CENTER CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
COMPRESSION SPRING	SPRING STEEL PER ASTM A684.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
CONTACT	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 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 AMS QQ–C–35C, TYPE 2.
COMPRESSION SPRING	NICKEL PER MIL–C–26074, CLASS 1
INSULATOR	N/A