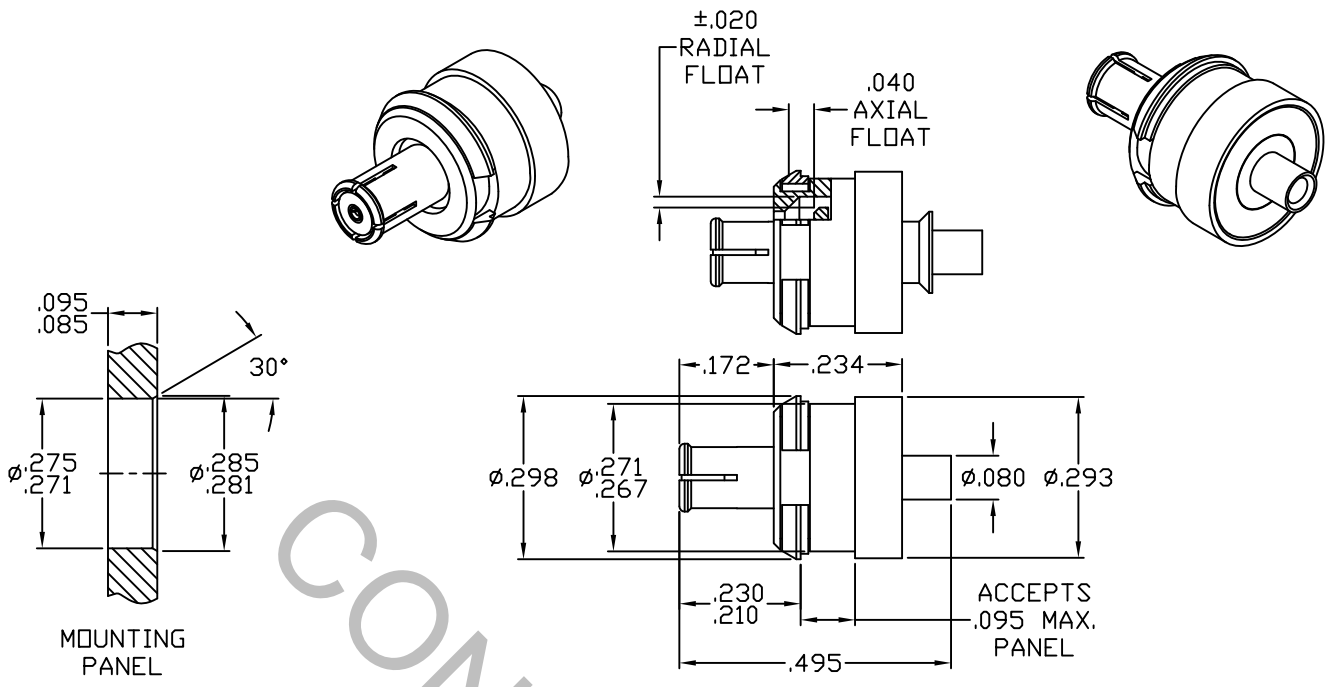
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1a (SMP JACK).
CONNECTOR SELF CENTERS WHEN NOT MATED.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.08 + .007 x FGHz
INSERTION LOSS (dB MAX.) ❋	.06 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	-85 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
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

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	15-2087	7/30/15	DC

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 DCF DATE 7/30/15

APPROVED DC DATE 7/30/15

TITLE SMP JACK,
FLOAT MOUNT,
DIRECT SOLDER TO
ø.047 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2060-4720-5441

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	N/A
MAX. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCE	
● INSERTION (MAX. POUNDS)	2.0, SMOOTH BORE CATCHERS MITT
● WITHDRAWAL (MIN. POUNDS)	0.5, SMOOTH BORE CATCHERS MITT
CONNECTOR DURABILITY (MIN. CYCLES)	1,000, SMOOTH BORE CATCHERS MITT
CONNECTOR SPRING FORCES	SPRING RATE – 35.24 LBS./IN. PRELOAD – APPX. .8 LBS. FORCE @ .040 COMPRESSION – APPX. 2.5 LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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.) (94 VRMS)

CONFIDENTIAL

5. MATERIAL

FLANGE, BUSHING & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
BODIES, CONTACT & RETAINER	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	TEFLON PER ASTM D–1710–02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	TORLON, 4203
SPRING	MUSIC WIRE

6. FINISH

FLANGE, BUSHING & PRESS SLEEVE	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
BODIES	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290 CLASS 1 (.000150 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
RETAINER	NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATORS & SPRING	N/A