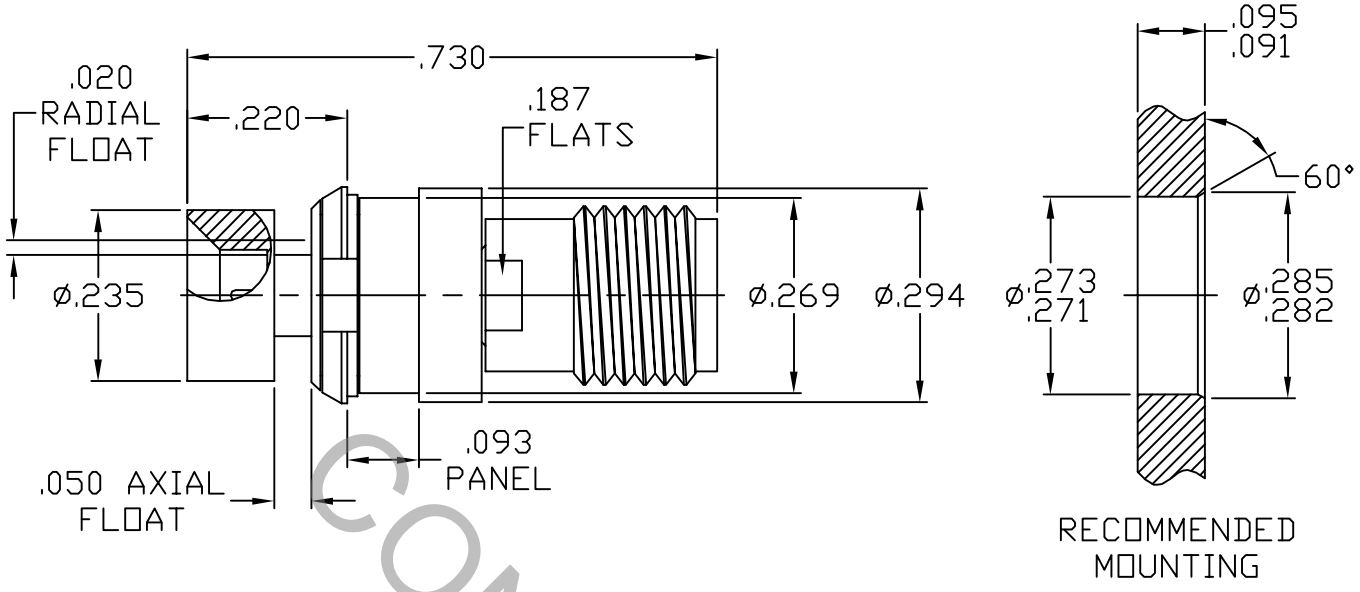
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMP MALE, SMOOTH BORE, CATCHERS MIT Per MIL-STD-348A Fig 326.5 AND SMA JACK Fig 310.2

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 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)	−100 dB − FGHz
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.
AA	06-1699	5/30/06	TS
AB	06-1781	6/27/06	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 TS DATE 5/30/06

APPROVED DC DATE 5/30/06

TITLE SMP MALE, SMOOTH BORE, CATCHERS MIT TO SMA JACK, FLOAT MOUNT PANEL ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1160-2199-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	3.5 LBS.
MAX. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCE	
● INSERTION (MAX. LBS.)	2.0 (SMOOTH BORE)
● WITHDRAWAL (MIN. LBS.)	0.5 (SMOOTH BORE)
CONNECTOR DURABILITY (MIN. CYCLES)	1,000
SPRING FORCES	6.0 LBS MAX., 2.0 LBS. MIN.
RECOMMENDED MATING TORQUE	7 – 10 IN. LBS. (SMA)

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)

5. MATERIAL

BODIES & FERRULE	STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
SPRING	MUSIC WIRE
INSULATORS	TEFLON PER ASTM D 4894–91.

6. FINISH

BODIES & FERRULE	PASSIVATE PER AMS QQ–P–35, TYPE 2.
RETAINING RING	NICKEL PER QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
SPRING	BRIGHT ZINC PLATE
CONTACT	GOLD PER ASTM–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.)
INSULATORS	N/A