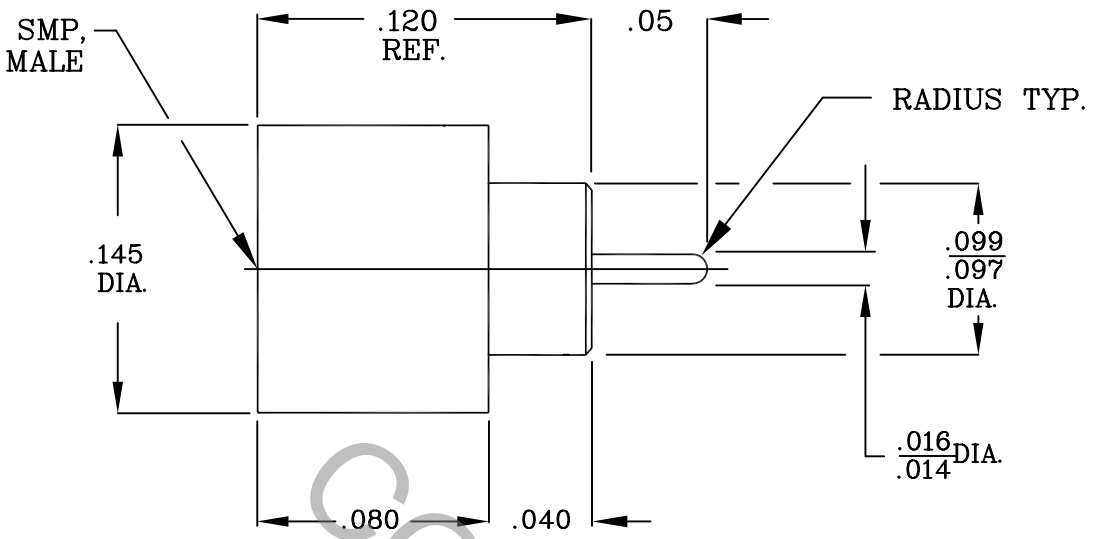
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER MIL-STD 348, Fig. 326-4, SMP, PLUG, SMOOTH BORE

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 39.0 GHz.
VSWR (MAX.) ❋	1.10 + 1.10 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	N/A
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)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	06-1800	6/28/06	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 6/28/06

APPROVED DC DATE 6/28/06

TITLE SMP, MALE
(SMOOTH BORE)
HERMETICALLY SEALED SHROUD
SOLDER MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2149-0434-7423

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE ——— 4.5 LBS.
- MIN. RADIAL TORQUE ——— 2.5 IN. OZ.

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) ——— 2.0 LBS.
- WITHDRAWAL (MIN. OUNCES) ——— 0.5 LBS.

CONNECTOR DURABILITY (MIN. MATING) ——— 1,000

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 °c TO + 200 °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)
HERMETICITY	1×10^{-8} cc/SEC.

CONFIDENTIAL

5. MATERIAL

CONNECTOR BODY AND GLASS PIN	KOVAR PER MIL–I–23011
GLASS	CORNING 7070

6. FINISH

CONNECTOR BODY AND GLASS PIN	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290 CLASS 1 (.00015 MIN. THK.) OVER COPPER PER MIL–C–14550.
GLASS	N/A