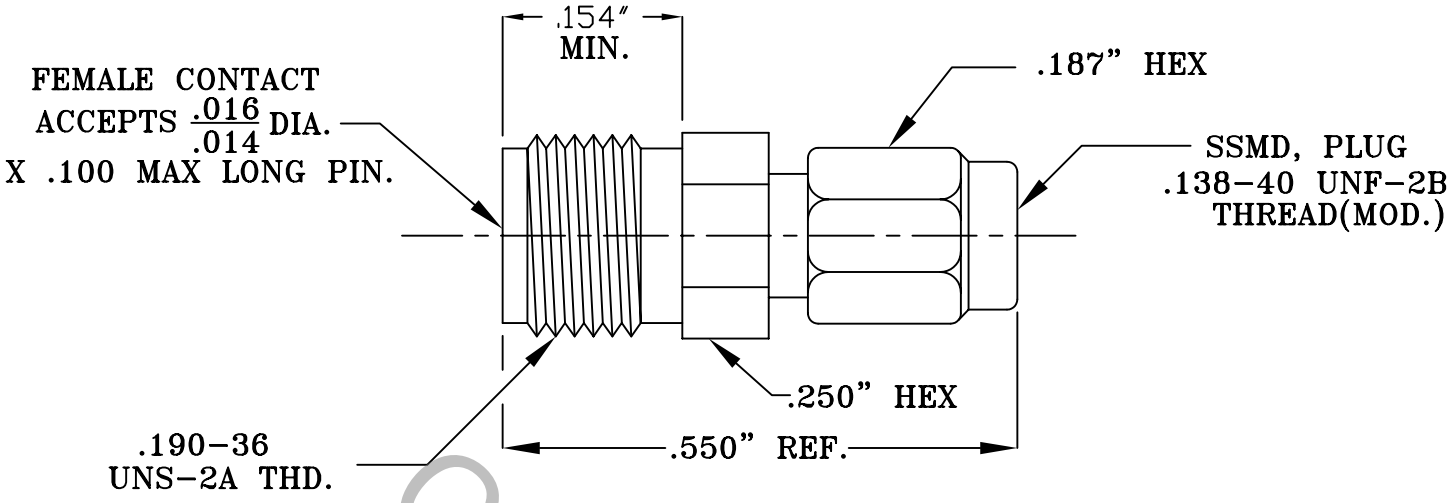
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE MD-52 (SSMD, PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	100dB-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)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	98-0526	6/15/99	DGG
AB	99-0644	7/16/99	DGG
AC	99-1007	10/22/99	DGG
AD	99-1280	12/29/99	AJH
BA	00-0151	2/21/00	AJH

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.

DRAWN: MJM DATE: 6/15/99

APP: DGG DATE: 6/15/99

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
Haverhill, MA. 01835

TITLE
SSMD, PLUG
SCREW- IN
FIELD REPLACEABLE

DWG. NO. 5230-0081-6215

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	4.0 LBS.
● MIN. RADIAL TORQUE	N/A
FEMALE CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES), (REAR)	32.0
● WITHDRAWAL (MIN. OUNCES), (REAR)	1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN./LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE (OSMM, PLUG)	2.5 TO 3.5 in./lbs.

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)

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5. MATERIAL

CONNECTOR BODY AND COUPLING NUT	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91

6. FINISH

COUPLING NUT, CONNECTOR BODY	PASSIVATE PER QQ–P–35C, TYPE VI.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 2, 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.)
INSULATOR	N/A