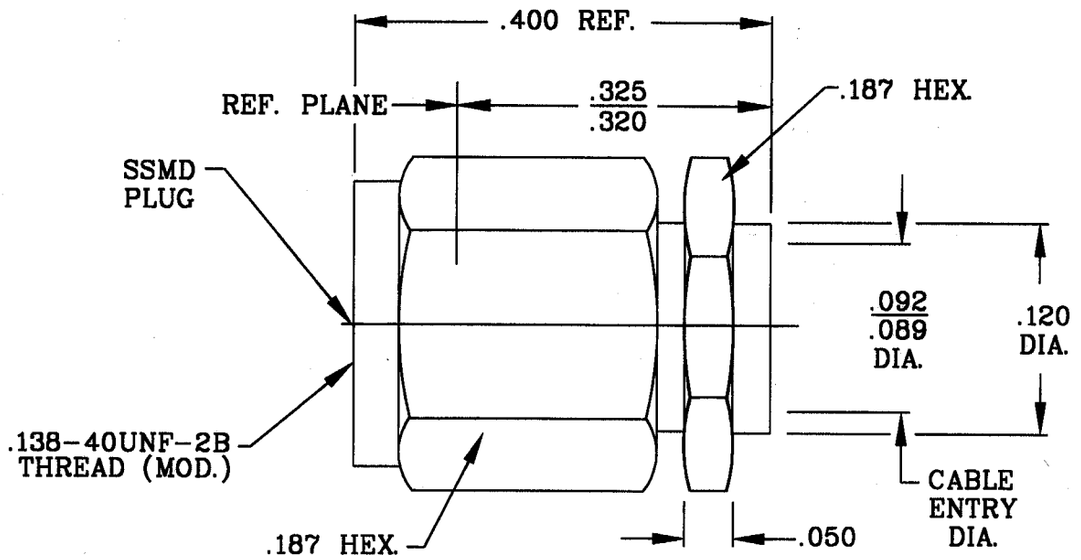
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE MD-52

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) *	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.)	.04 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
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)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
AA	00-0042	1/12/00	DGG
AB	00-0052	1/19/00	DGG
AC	00-0278	3/9/00	DGG

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

DRAWN KLF DATE 1/12/00

APPROVED DGG DATE 1/12/00

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE
SSMD, PLUG
DIRECT SOLDER
.086 DIA. S/R CABLE

DWG. NO. 5200-8520-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE ——— N/A
- MIN. RADIAL TORQUE ——— N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) ——— N/A
- WITHDRAWAL (MIN. OUNCES) ——— N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN./LBS.) ——— 2.0

CONNECTOR DURABILITY (MIN. CYCLES) ——— 500

RECOMMENDED MATING TORQUE

INTERFACE ——— 3.0 TO 5.0 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

CONNECTOR BODY	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 0 (.000030 MIN.) OVER NICKEL PER MIL–P27418 (.00010 MIN.)
COUPLING NUT	PASSIVATE PER QQ–P–35C, TYPE VI.
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR	N/A