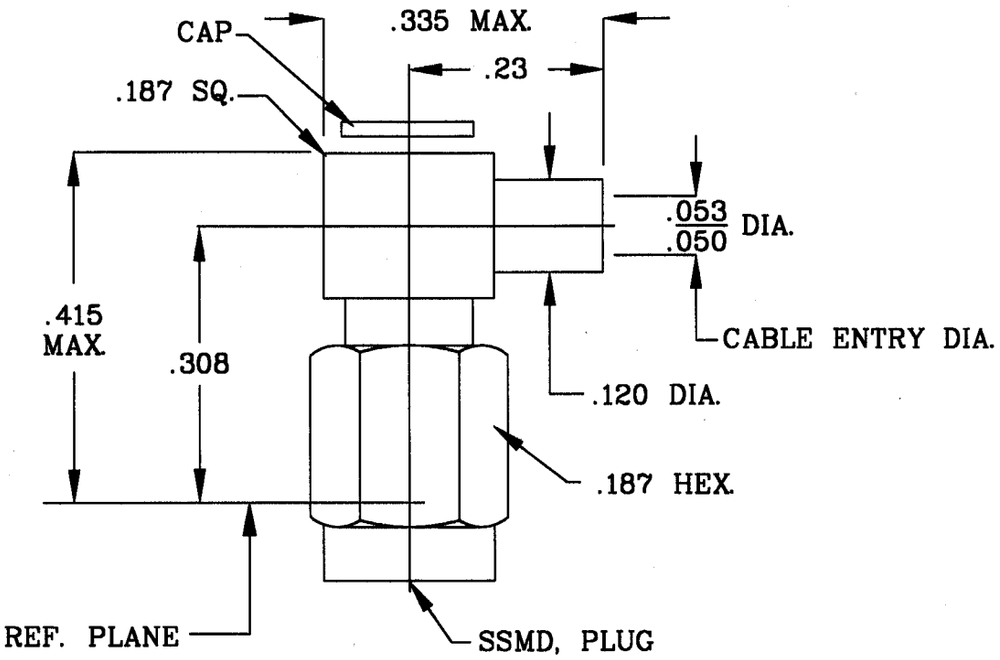
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE MD-52

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.07 + .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)	N/A
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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
AA	00-0939	7/19/00	DGG

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63 √ MIL-STD 10.

DRAWN KLT DATE 7/19/00

APPROVED DGG DATE 7/19/00

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE SSMD, R/A PLUG
DIRECT SOLDER
.047 DIA.
"LOW LOSS" CABLE

DWG. NO. 5201-4821-6244

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 4.5 LBS.
- 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 AND RETAINING RING	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91
GASKET	RUBBER, SILICONE PER AMS–3304, COLOR RUST, GRADE 70.
CAP	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.

6. FINISH

CONNECTOR BODY AND CAP	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 I, GRADE C, (.000013 MIN.) OVER NICKEL PER QQ–N–290, OR MIL–P–27418 CLASS 1 (.00010 MAX. THK.)
INSULATOR, RETAINING RING AND GASKET	N/A