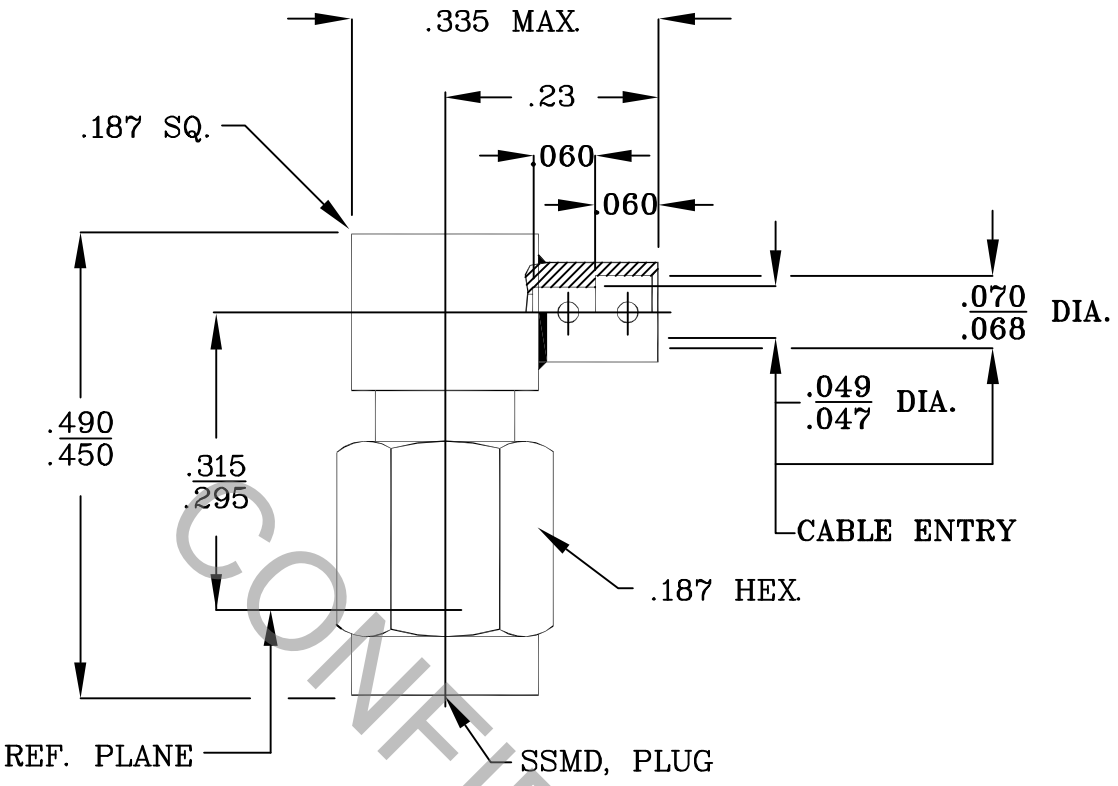
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE MD-52

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.05 + .007 x FGHz
INSERTION LOSS (dB MAX.)	.045 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

REV.	DCN NO.	DATE	APP.
A	1223	7/96	JD
AA	97-0153	2/26/97	TS
AB	99-1280	12/29/99	AJH
AC	00-0130	2/7/00	DGG
AD	00-0987	7/31/00	DGG
AF	01-0355	4/20/01	DGG
AG	05-1305	3/9/05	DC

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	T.S.	DATE	4/96
APPROVED	T.S.	DATE	4/96

TITLE SSMD, PLUG
RIGHT ANGLE DIRECT
SOLDER TO STORM CABLE
PART No. 421-042

CODE IDENT.	SHEET 1 OF 2
2J899	

DWG. NO. 5201-6721-6240

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	4.0 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	2.0 IN/LBS MAX

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 ATSM B 488, TYPE 2, CODE C, CLASS 0.5 (.000020 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000040 MIN. THK.).
INSULATOR	N/A