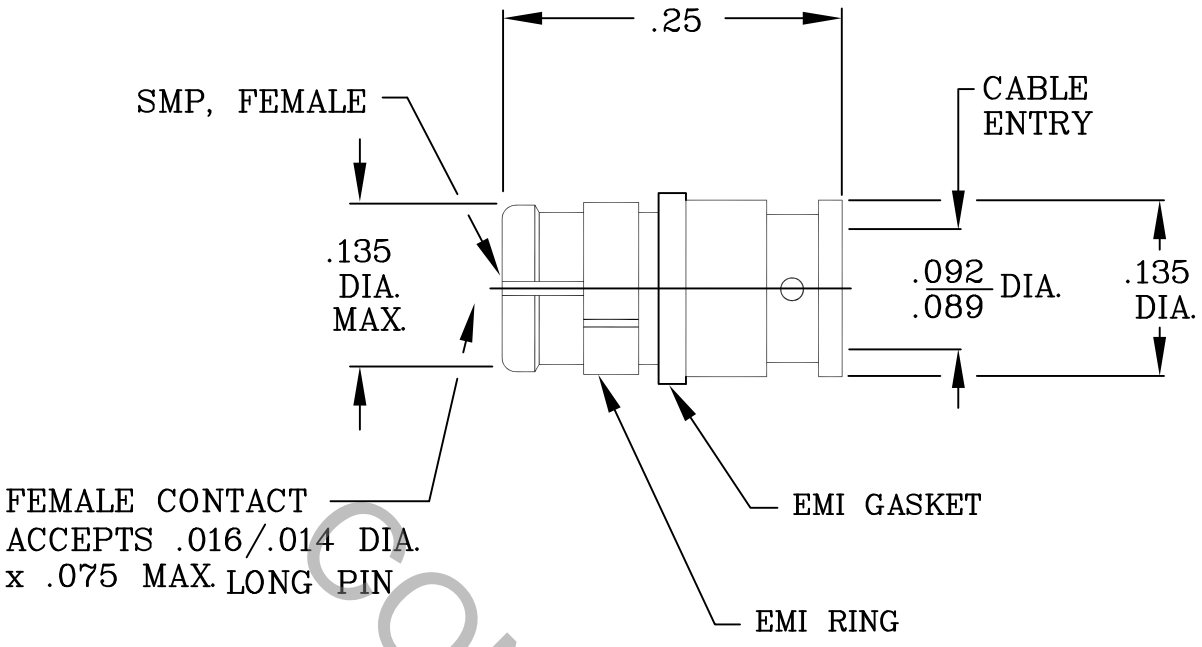
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20-7

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) ❋	DC TO 18.0 GHz., 1.20 MAX.
	18.0 TO 26.5 GHz., 1.35 MAX.
	26.5 TO 40.0 GHz., 1.50 MAX.
INSERTION LOSS (dB MAX.) ❋	.12 dB x $\sqrt{F}$GHz.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	100 dB - 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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

RoHS COMPLIANT

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	04-1793	6/23/04	TS
AB	05-2374	1/3/06	DGG

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/16"
ANGULAR: X° ±1° 0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 6/23/04

APPROVED DC DATE 6/23/04

TITLE
SMP, FEMALE
DIRECT SOLDER
TO .085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2000-8527-5425

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	N/A
• MIN. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCES	
• INSERTION (MAX. LBS.)	15.0 (FULL DETENT)
• WITHDRAWAL (MIN. LBS.)	5.0 (FULL DETENT)
CONNECTOR DURABILITY (MIN. MATING)	100 (FULL DETENT)
CABLE RETENSION (SOLDER)	50.0 LBS. MIN.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 165 °c)
SHOCK	MIL–STD–202, METHOD 213, COND. I (100 G's)
VIBRATION (HIGH FREQUENCY)	MIL–STD–202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM)	MIL–STD–202, METHOD 214, TEST COND. F.
THERMAL SHOCK	MIL–STD–202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
CORROSION	MIL–STD–202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (190 VRMS MIN.)
CORONA LEVEL	70,000 FEET.

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5. MATERIAL

CONNECTOR BODY, CENTER CONTACT AND EMI RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER D 4894.
EMI GASKET	SILVER PLATED COPPER IN SILICONE RUBBER

6. FINISH

CONNECTOR BODY, CENTER CONTACT AND EMI RING	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1 (.00005–.0001 THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00005–.0001 THK.).
INSULATOR AND EMI GASKET	N/A