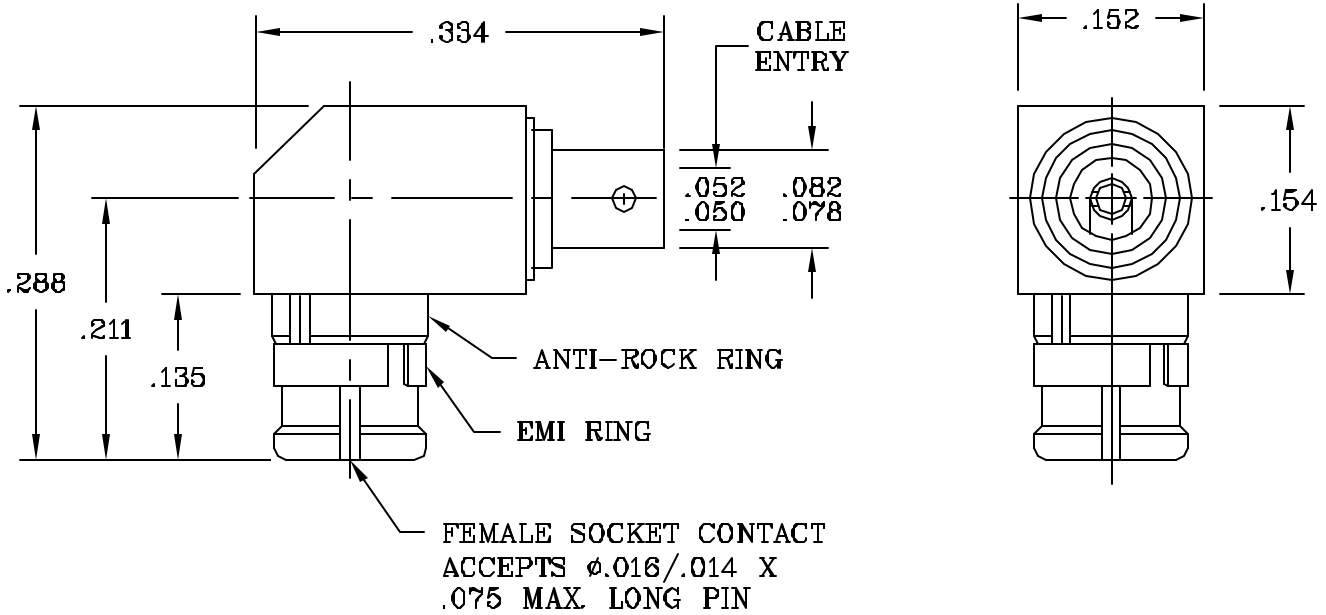


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20 AND ML-STD 348, Fig. 326-1.

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz.
VSWR (MAX) *	_____	DC TO 26.5 GHz., 1.05 + .010 x FGHz. 26.5 TO 40 GHz., 1.10 + .015 x FGHz.
INSERTION LOSS (dB MAX) *	_____	DC TO 26.5 GHz., .040 dB x $\sqrt{\text{FGHz.}}$ 26.5 TO 40.0 GHz., .050 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	85 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	2,500
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			dynawave INCORPORATED HAVERHILL, MA 01835
AA	03-2099	8/28/03	DC	DECIMALS .X ± .050 .XX ± .010 .XXX ± .005	FRACTIONAL ±1/64	ANGULAR X° ± 1' 0" X' X ± 15"	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10.}}$			TITLE SMP, FEMALE RIGHT ANGLE DIRECT SOLDER TO .047 S.R. CABLE
				DRAWN	DC	DATE 8/28/03	
				APPROVED	DC	DATE 8/28/03	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 2001-4720-5429
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.5 LBS.
- MIN. RADIAL TORQUE _____ 2.0 IN. OZ.

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) _____ 15.0 *
- WITHDRAWAL (MIN. LBS.) _____ 5.0 *

CONNECTOR DURABILITY (MIN. MATING) _____ 500

* FULL DETENT/MALE

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-85 ° c TO + 135 ° a)
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 108, 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)

5. MATERIAL

CONNECTOR BODY, CONTACTS, EMI RING _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
AND ANTI-ROCK RING
INSULATOR _____ TEFLON PER ASTM D 4894-91
REAR INSULATOR _____ TORLON 4023

6. FINISH

CONNECTOR BODY, EMI RING AND ANTI-ROCK RING _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 (.00005 MIN. THK.) OVER NICKEL PER MIL-P-27418 (.00015 MIN. THK.) OVER WOODS OR WATTS NICKEL (.00001 MIN. THK.)
CONTACTS _____ 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-14660 (.000010 MIN.)
INSULATORS _____ N/A



SHEET 2 OF 2

DWG.
NO.

2001-4720-5429

REV.

AA