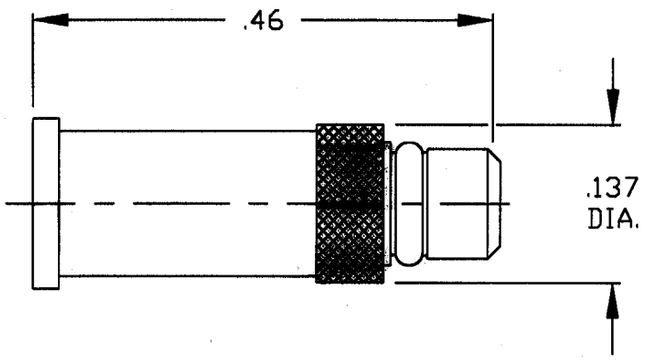
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR MMCX PLUG PER DYNAWAVE SPECIFICATION MD-24.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz.
VSWR (MAX.) ✱	1.35 MAX.
INSERTION LOSS (dB MAX.)✱	.1 dB MAX.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	70 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)	5.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

✱ TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
AA	02-0011	1/8/02	DGG

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 SS DATE 1-4-02

APPROVED DGG DATE 1/8/02

TITLE
MMCX, PLUG
STRAIGHT, CRIMP ATTACHMENT
FOR RG 178 CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2400-7830-2400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE — 4.0 LBS.
- MIN RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) — 3.0
- WITHDRAWAL (MIN. LBS.) — 0.5

CONNECTOR DURABILITY (MIN. MATING) — 500

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	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

BODY AND CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196, COPPER ALLOY, UNS-C-17800, TEMPER TD04.
CRIMP SLEEVE	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000 (ANNELED).
INSULATOR	TEFLON PER D-1457.

6. FINISH

BODY AND CRIMP SLEEVE	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 0.70 (.000030 MIN. THK) OVER NICKEL PER QQ-N-290, CLASS 1 (.000050 MIN. THK) OVER COPPER PER MIL-C-14550, (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 0.75 (.000030 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