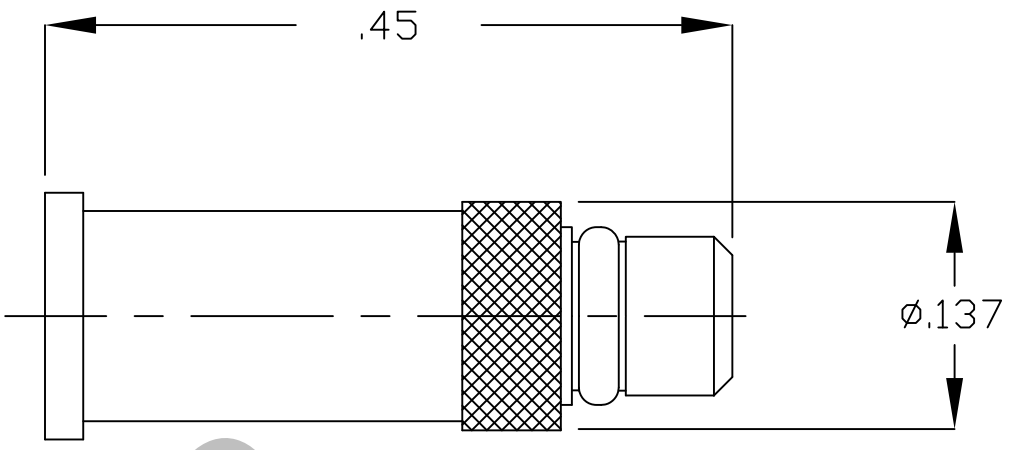
SPECIFICATION CONTROL DRAWING



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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

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	06-1368	3/23/06	TS
AB	11-1721	8/16/11	DC

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .X ±.030 .XX ±.010 .XXX ±.005
FRACTIONAL ±1/64
ANGULAR X °±1 0' X ° X' ±15'
SURFACE ROUGHNESS 63 √MIL-STD-10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN SS DATE 3/23/06
APPROVED TS DATE 3/23/06

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

CODE IDENT. 2J899
SHEET 1 OF 2
DWG. NO. 2400-7830-2401

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/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
CRIMP SLEEVE	BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
INSULATOR	TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

BODY AND CRIMP SLEEVE	GOLD PER ASTM B 488, TYPE 2, CODE C, CLASS 0.70 (.000030 MIN. THK) OVER NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000050 MIN. THK) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
INSULATOR	N/A