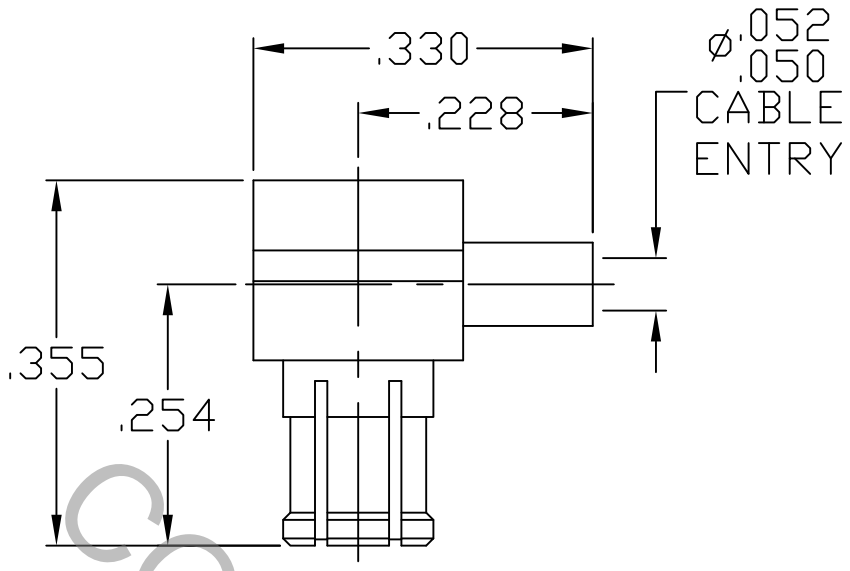
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER CECC 22220 (MCX PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz
VSWR (MAX.) ❋	1.15 + .035 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	−65 dB − FGHz
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)	5.0
• OUTER CONTACT (MAX. MILLIOHMS)	1.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	11−1826	9/16/11	TS
AB	14−1057	1/10/14	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0′ X ° X′ ± 15′

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 9/16/11

APPROVED DC DATE 9/16/11

TITLE MCX PLUG, RIGHT ANGLE, DIRECT SOLDER TO ø.047 SEMI−RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1501−4720−2400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX.AXIAL FORCE — 4.0 LBS.
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 3.5 LBS. MAX. / 1.8 LBS. MIN.

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — N/A

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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.) (190 VRMS)

5. MATERIAL

BODY, CENTER CONTACT & CAP	BRASS PER ASTM–B16, TEMPER H02, ALLOY C36000.
OUTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B

6. FINISH

BODY, OUTER CONTACT & CAP	GOLD FLASH PER ASTM–B–488, TYPE I, CODE C, (.000003 MIN. THK.)
CENTER CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS .64 (.000030 MIN. THK.).
INSULATORS	N/A