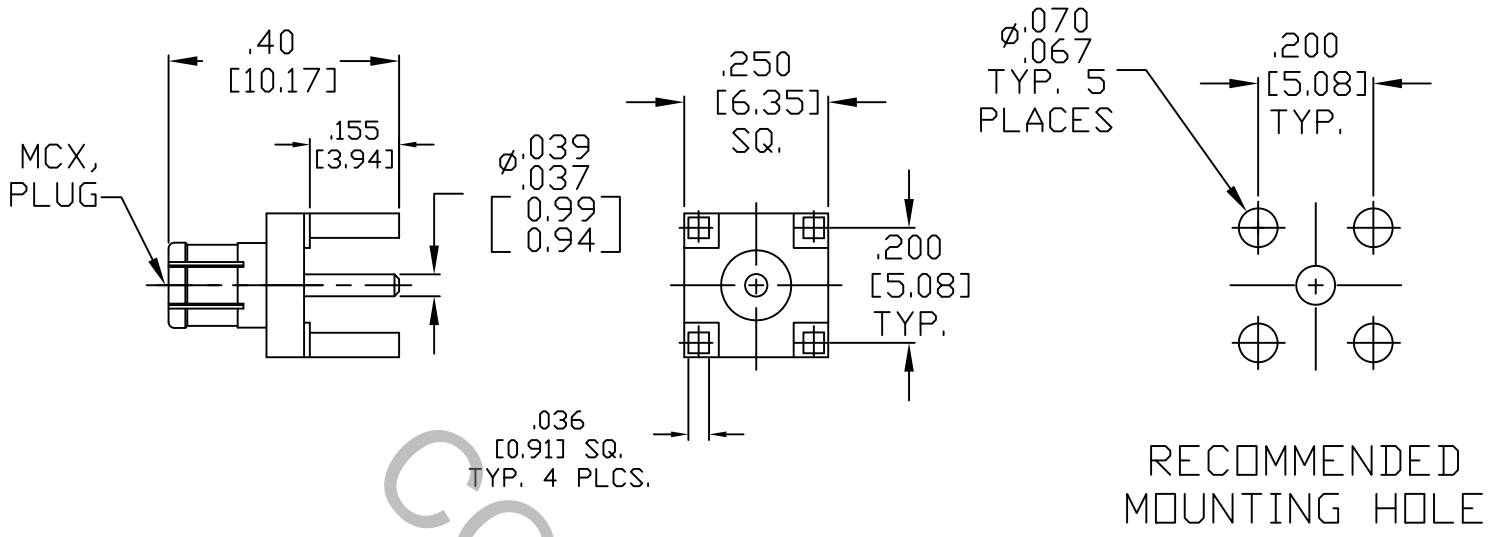
# SPECIFICATION CONTROL DRAWING

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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.) ❋ | 1.50:1 MAX. |
| INSERTION LOSS (dB MAX.) ❋ | .10 dB x $\sqrt{FGHz}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 170 |
| RF LEAKAGE (MIN. dB DOWN) | −60 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 |

❋ TERMINATED IN A 50 OHM LOAD

**RoHS**
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 13−2391 | 10/15/13 | DC |
| AB | 14−1460 | 4/15/14 | TS |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64 | X ° ± 1° 0'<br>X ° X' ± 15' |

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 10/15/13

APPROVED DC DATE 10/15/13

TITLE
MCX PLUG STRAIGHT
4 POST PCB MOUNT
STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1520−0031−2401

# 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) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. LBS) — 5.6
- WITHDRAWAL (MIN. LBS) — 4.5

CONNECTOR DURABILITY (MIN. CYCLES) — 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 | BRASS PER ASTM B16, TEMPER H02, ALLOY C36000. |
| CONTACT | BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM–D–1710–02, TYPE 2, GRADE 1, CLASS A. |

## 6. FINISH

| | |
|---|---|
| BODY AND CONTACT | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.03 (.000030 MAX. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MAX. THK.) OVER COPPER PER AMS 2418 (.000010 MIN THK.) |
| INSULATOR | N/A |