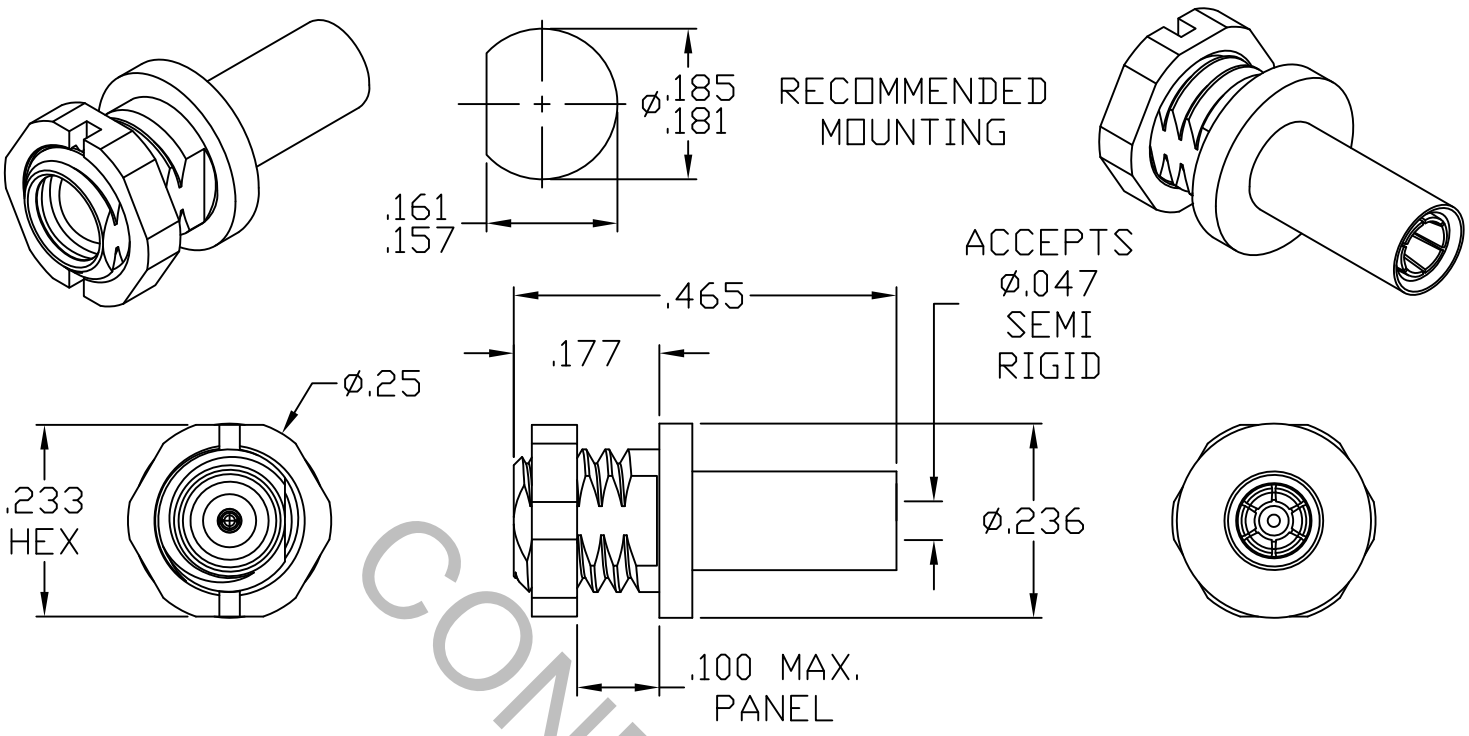
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per CECC 22000 (MMCX JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz
VSWR (MAX.) ❋	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	133
RF LEAKAGE (MIN. dB DOWN)	−60 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	400
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	5.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.5

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	13−2486	10/30/13	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 DC DATE 10/30/13

APPROVED DC DATE 10/30/13

TITLE
MMCX JACK, BULKHEAD, DIRECT SOLDER TO ø.047 SEMI−RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2510−4720−2300

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MIN. AXIAL FORCE	2.5 LBS.
MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	3.5
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	N/A
RECOMMENDED MOUNTING TORQUE	5 – 8 IN. LBS.

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4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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.) (100 VRMS)

5. MATERIAL

BODY, FERRULE & HEX NUT	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

BODY, FERRULE & HEX NUT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.25 (.000010 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