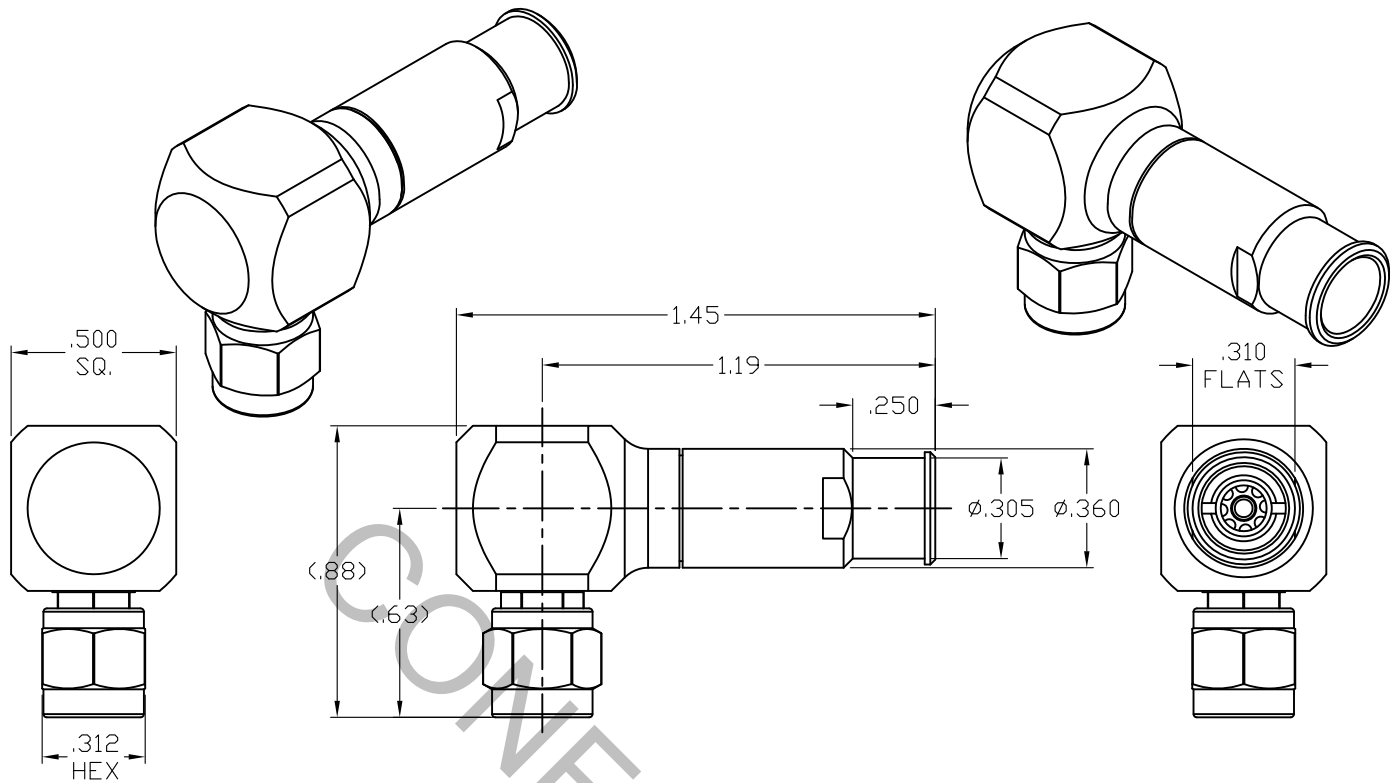


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX) *	1.10 + .008 x FGHz
INSERTION LOSS (dB MAX) *	.04 dB x √FGHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	-100 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)	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.	DIMENSIONS ARE IN INCHES TOLERANCES			CABLE INCORPORATED HAVERHILL, MA 01835
AA	16-2188	9/26/16	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	
				DRAWN RMS	DATE	9/26/16	TITLE SMA PLUG, RIGHT ANGLE, SOLDER CLAMP, T7-00224 LOW LOSS
				APPROVED DC	DATE	9/26/16	
				CODE IDENT. 6DZL5	SHEET 1 OF 2		DWG. NO. 9801-7224-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 6.0 LBS.

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) _____ N/A

● WITHDRAWAL (MIN. OUNCES) _____ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

THERMAL SHOCK _____ MIL-STD-202, METHOD 107, COND. B (-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.) (190 VRMS)

5. MATERIAL

BODY, CUBE, CLAMP NUT, COUPLING NUT, _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
BUSHING & SLEEVES

CONTACTS & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B 196M-03, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.

INSULATORS _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

GASKET & O-RINGS _____ SILICONE RUBBER PER ZZ-R-765.

SOLDER SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, CUBE, CLAMP NUT, COUPLING NUT, _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
BUSHING & SLEEVES

SOLDER SLEEVE _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL per AMS QQ-N-290
CLASS 1, (.000150 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

CONTACTS _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL per AMS QQ-N-290
CLASS 1, (.000050 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

INSULATORS, RETAINING RING, GASKET & O-RINGS _____ N/A