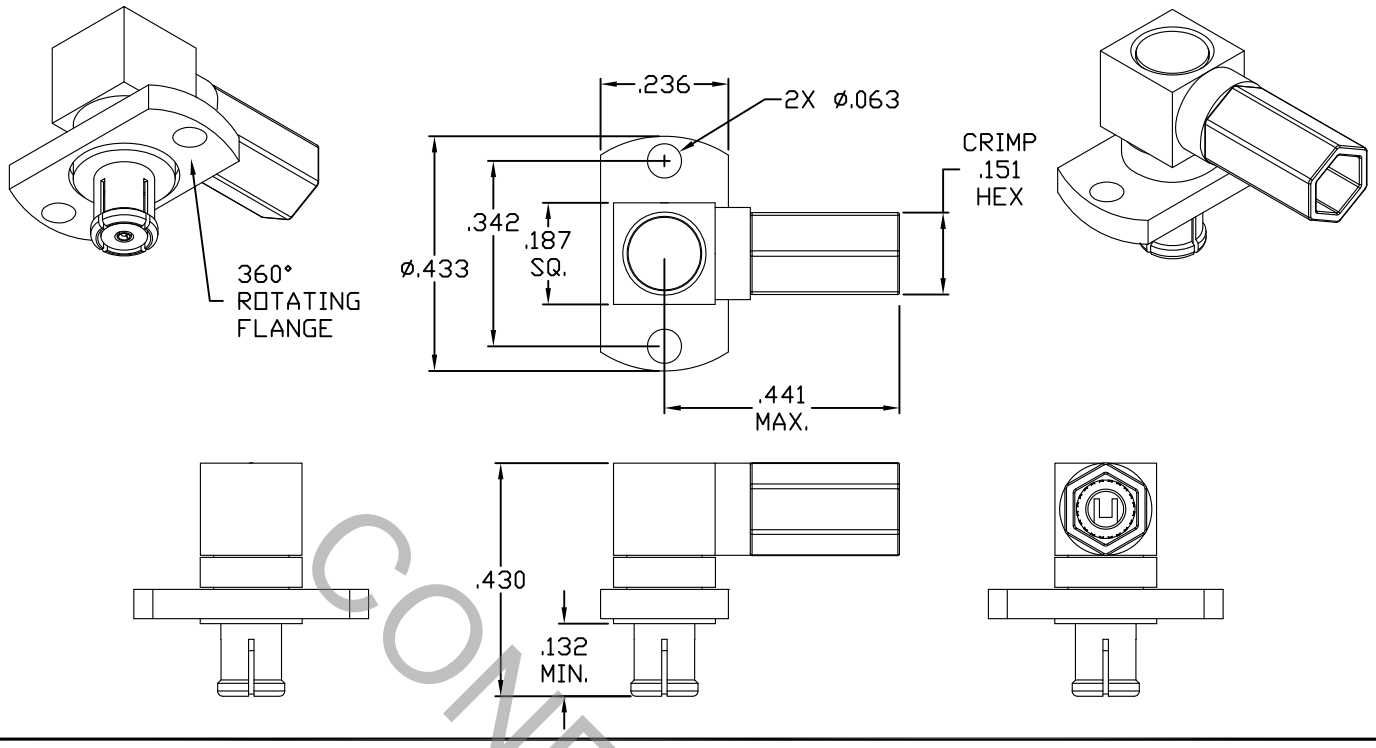
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 326.1 (SMP, JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz
VSWR (MAX.) ❋	1.08 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	−80 dB @ 3.0 FGHz
	−70 dB @ 12.4 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)	3.0
• 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	14-1647	5/23/14	TS
AB	15-1716	5/7/15	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 5/23/14

APPROVED DC DATE 5/23/14

TITLE SMP, JACK, R/A
2 HOLE ROTATING FLANGE
CRIMP ATTACHMENT
TO DB 316 CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2056-1831-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	1.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	32.0 OZ.
• WITHDRAWAL (MIN. OUNCES)	1.0 OZ.
RADIAL MISALIGNMENT	.010 MAX.
AXIAL MISALIGNMENT	.000/.010
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	15.0 / 5.0 LBS. (FULL DETENT) 10.0 / 2.0 LBS. (LIMITED DETENT) 2.0 / 0.5 LBS. (SMOOTH BORE)
CONNECTOR DURABILITY (MIN. CYCLES)	100 (FULL DETENT) 250 (LIMITED DETENT) 1,000 (SMOOTH BORE)

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)

5. MATERIAL

BUSHING, CABLE ENTRY BODY, FLANGE AND CAP	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
SMP BODY AND CONTACT	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
CRIMP SLEEVE	BRASS PER ASTM–B16, TEMPER H02, ALLOY C36000
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

SMP BODY, CABLE ENTRY BODY AND CAP	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, (.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
BUSHING AND FLANGE	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
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 AMS 2418 (.000010 MIN. THK.)
CRIMP SLEEVE	NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR	N/A

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