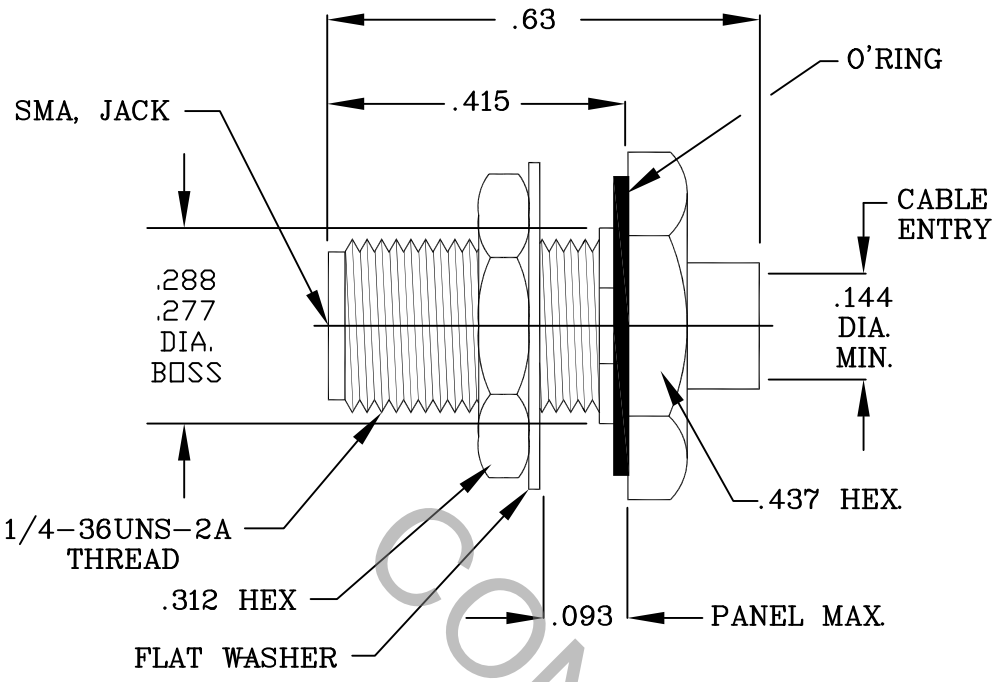
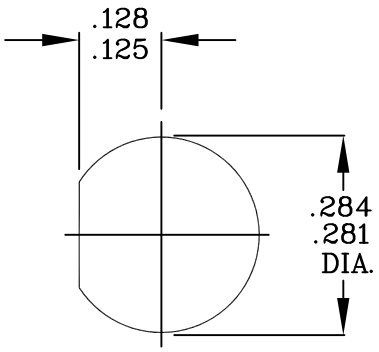
SPECIFICATION CONTROL DRAWING





RECOMMENDED MOUNTING HOLE

1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA, JACK AND DYNAWAVE SPECIFICATION MD-99.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	1.05 + .005 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.030 dB x $\sqrt{FGHz}$.
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)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	06-1738	6/11/06	TS
AB	06-2258	10/11/06	TS
AC	07-2010	10/12/07	DC
AD	10-1210	2/26/10	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X° X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

DRAWN TS DATE 6/11/06

APPROVED DC DATE 6/11/06

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE SMA, JACK BULKHEAD MOUNT DIRECT SOLDER TO .141 SEMI-RIGID CABLE

DWG. NO. 9910-4120-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	N/A
• MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	24.0
• WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	
INTERFACE	7 – 10 IN. LBS.

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.) (375 VRMS)

5. MATERIAL

CONNECTOR BODY, FLAT WASHER AND LOCKNUT	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS C 17300, TEMPER TD04
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	SILICONE RUBBER

6. FINISH

CONNECTOR BODY	GOLD PER ASTM B 488, TYPE 1 CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS 1. (.000150 MIN. THK.)
FLAT WASHER AND LOCKNUT	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
CENTER CONTACT	GOLD PER ASTM B 488, TYP2 1, CODE C, CLASS 2.5 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR AND O'RING	N/A