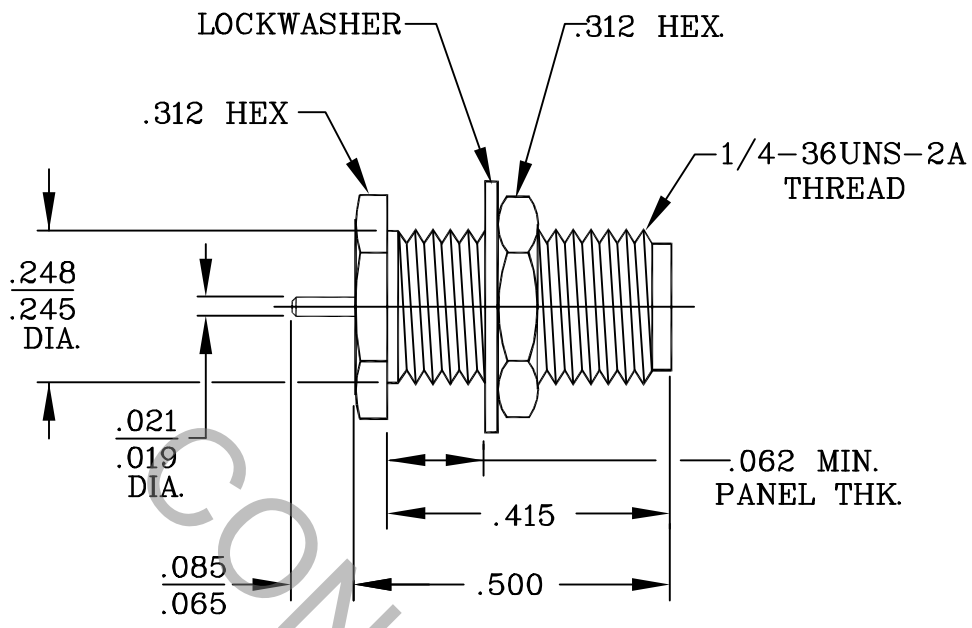
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2).

2. ELECTRICAL

FREQUENCY RANGE GHz	D.C. TO 26.5 GHz
VSWR (MAX.) ❋	1.04 + .008 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.04 + dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	100 - 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)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	05-1582	5/10/05	DC
AB	05-1616	5/23/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005
FRACTIONAL: ±1/64
ANGULAR: X ° ± 1 °0', X ° X' ± 15'

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN TS DATE 5/10/05
APPROVED DC DATE 5/13/05

TITLE
SMA JACK, BULKHEAD HERMETICALLY SEALED STRAIGHT TERMINAL

CODE IDENT. 2J899
SHEET 1 OF 2
DWG. NO. 9910-0432-6525

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

MAX. AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	4.0 IN/OZ.

CENTER CONTACT AXIAL FORCES

• INSERTION (MAX. OUNCES)	48.0
• WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	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.) (.190 VRMS)
HERMETICITY	1 x 10^{-8} cc/SEC.

5. MATERIAL

BODY AND LOCKNUT	STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A.
CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300 TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710
LOCKWASHER	STAINLESS STEEL PER AMS 5640, TYPE 304, COND. A
GLASS PIN	KOVAR PER MIL–I–23011.
GLASS	CORNING 7070.
GASKET	SILICON PER ZZ–R–765, CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY AND GLASS PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 4.0 (.000160 – .000200 THK.) OVER NICKEL PER QQ–N–290 (.000100 – .000200 THK).
CONTACT	GOLD PER ATSM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000040 MIN. THK.)
LOCKNUT AND LOCKWASHER	PASSIVATE PER AMS QQ–P–35, TYPE 2.
INSULATOR AND GASKET	N/A