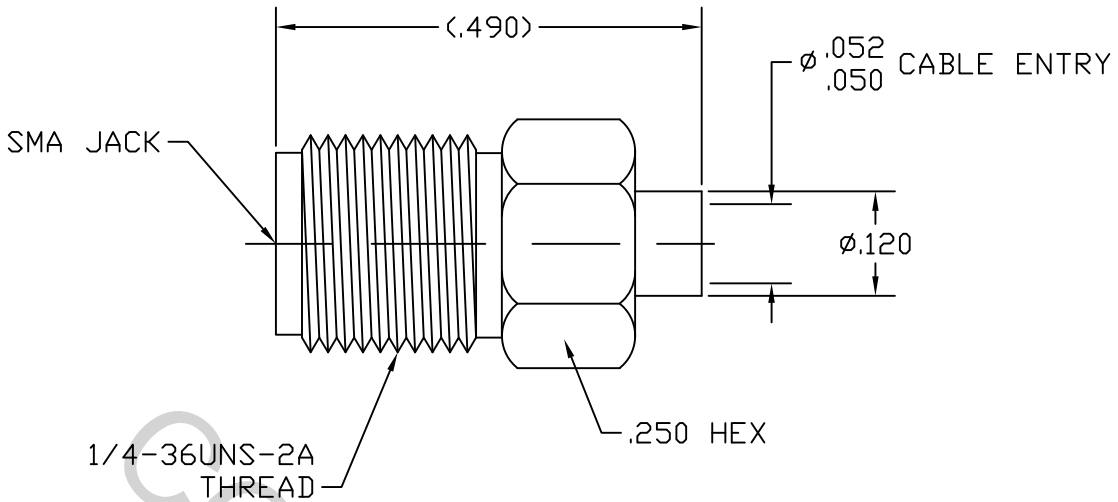
SPECIFICATION CONTROL DRAWING



1. MATING

INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2) AND DYNAWAVE SPECIFICATION MD-99.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.04 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	100 dB – 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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	03-1575	4/30/03	G.E.
AB	06-1662	5/17/06	TS
AC	18-1468	4/27/18	DC

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN G.E. DATE 4/30/03

APPROVED G.E. DATE 4/30/03

TITLE SMA, JACK
DIRECT SOLDER
(FOR ø.047 S/R CABLE)
CAPTIVATED CONTACT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9900-4721-6400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 6.0 LBS.
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 1,000

RECOMMENDED MATING TORQUE — 7 – 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ℃ TO + 200 ℃)
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.) (12 PSI RMS)

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 1710

6. FINISH

CONNECTOR BODY	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00015 MIN.THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.)
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 MIN. THK) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATOR	N/A