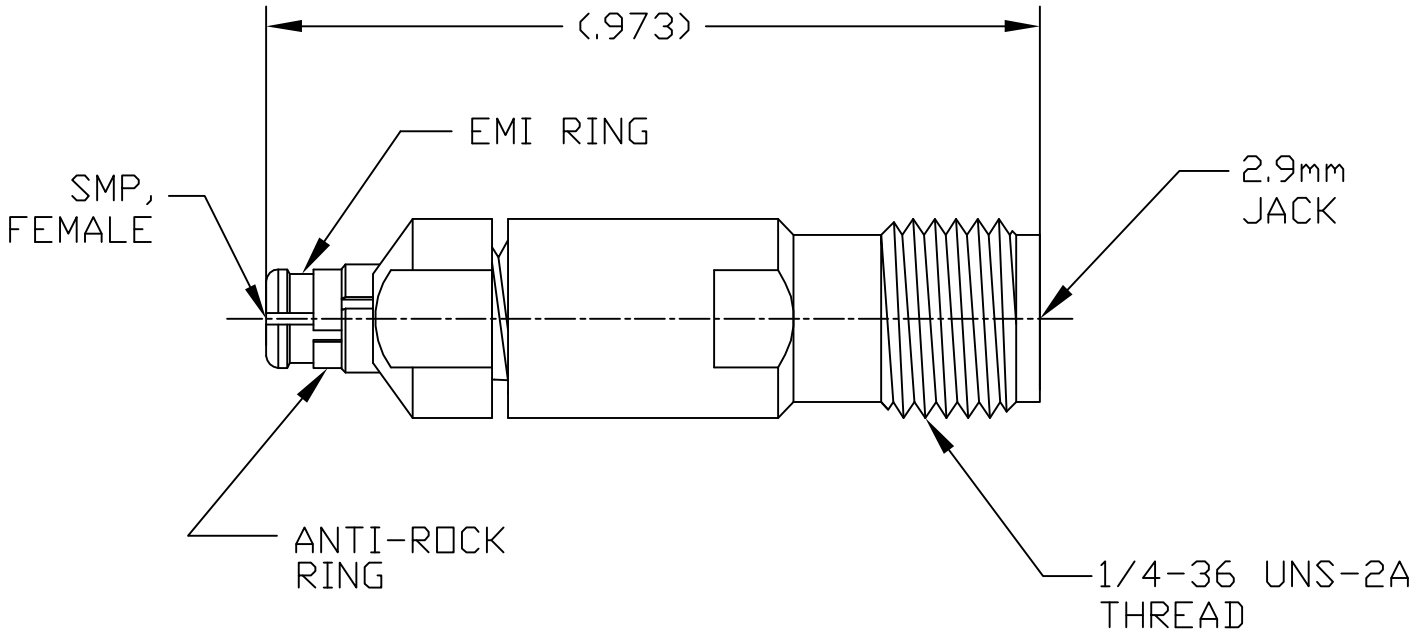
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-95 (2.9mm, JACK) AND MD-20 (SMP, FEMALE).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) ❋	1.05 + .005 x FGHz. (DC – 26.5 GHz.)
VSWR (MAX.) ❋	1.05 + .010 x FGHz. (26.5 – 40.0 GHz.)
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	90 dB – FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	4.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	02-0877	10/21/02	BN
AB	05-1834	8/22/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X °±1 °0' X ° X' ±15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave® INCORPORATED
HAVERHILL, MA. 01835

DRAWN GE DATE 10/18/02

APPROVED BN DATE 10/21/02

TITLE: SMP, FEMALE TO 2.9mm JACK, ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-2095-5450

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

MIN. AXIAL FORCE	4.5 LBS.
MIN. RADIAL TORQUE	4.0 IN. OZ.

2.9mm, JACK MATING FORCES – CENTER CONTACT

● INSERTION (MAX. OUNCES)	32.0
● WITHDRAWAL (MIN. OUNCES)	2.0

SMP, MALE ENGAGEMENT FORCES

● ENGAGE (MAX. LBS.)	FULL DETENT 15.0 LBS.
● DISENGAGE (MIN. LBS.)	FULL DETENT 5.0 LBS.

CONNECTOR DURABILITY (MIN. MATING)

● 2.9mm, JACK	1,000
● SMP, MALE	500

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (-65^{o}c TO $+165^{o}$ 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

BODY 2.9mm	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
BODY SMP, CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER D 1457

6. FINISH

BODY 2.9mm	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL per QQ–N–290, CLASS 1 (.000150 Minimum Thickness) OVER NICKEL (WOODS OR WATTS, (.000010 Minimum Thickess).
BODY SMP	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 – .000100 Minimum Thickness) OVER NICKEL per QQ–N–290, (.000100 Minimum Thickness) OVER COPPER PER MIL–C–14550 (.000040 Minimum Thickess).
CENTER CONTACT	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 2.25 (.000100 Minimum Thickness) OVER NICKEL per QQ–N–290, (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000010 Minimum Thickess).
INSULATOR	N/A