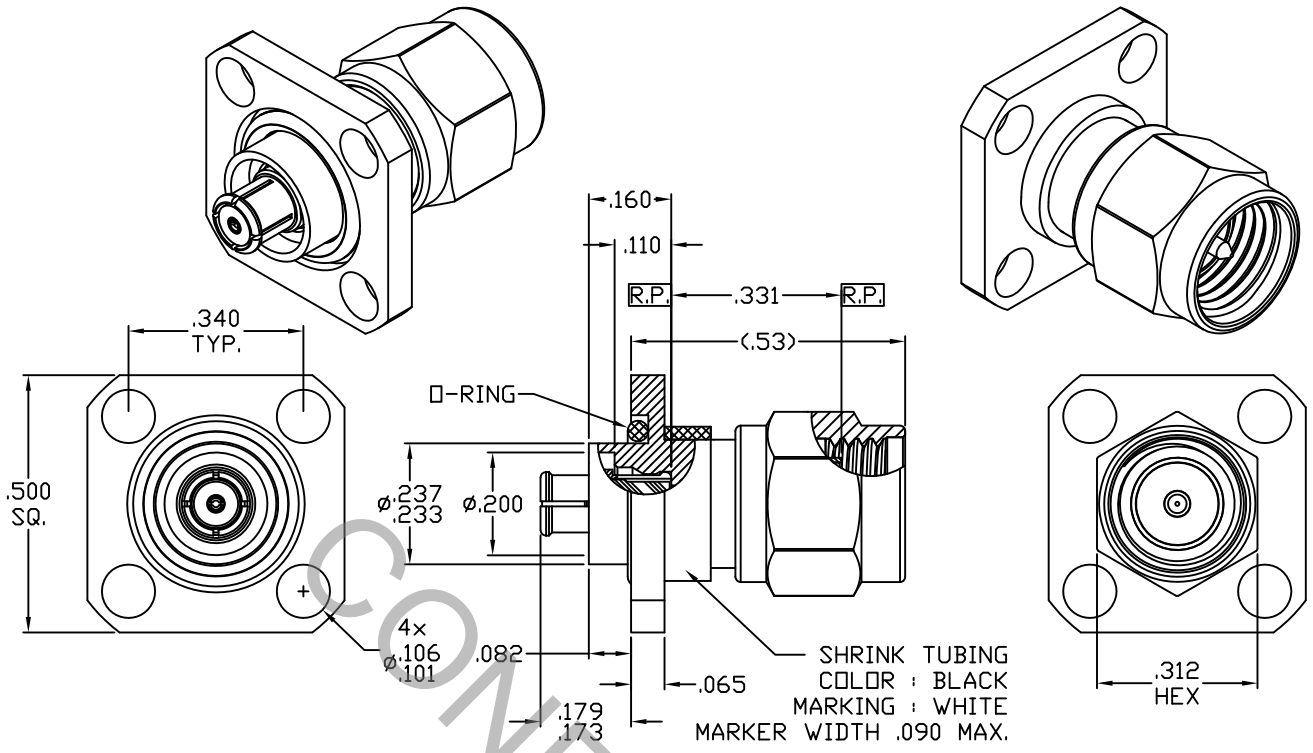
SPECIFICATION CONTROL DRAWING



1. MATING — INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.2 (SMP MALE) FULL DETENT, Fig. 326.1 (SMP FEMALE) AND Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.10 + .015 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	−65 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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	09-1379	4/30/09	DC
AB	09-1462	6/4/09	DC
AC	09-1719	9/18/09	TS
BA	10-1793	8/30/10	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

DRAWN DC DATE 4/30/09

APPROVED DC DATE 4/30/09

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA 01835

TITLE
SMP FEMALE TO SMA PLUG, 4 HOLE FLANGE ADAPTER

DWG. NO. 1154-2098-6703

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACES 32.0
● WITHDRAWAL (MIN. OUNCES)	SMP INTERFACE 1.0, SMA 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0 SMA
CONNECTOR DURABILITY (MIN. CYCLES)	SMA 500, SMP 100
RECOMMENDED MATING TORQUE	SMA 7 – 10 IN. LBS.

4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (–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.) (190 VRMS)

5. MATERIAL

SMA BODY & COUPLING NUT	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
SMP BODY, CONTACTS & RETAINING RING	BERYLLIUM COPPER PER ASTM–B–196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATORS	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
GASKET & O–RING	SILICONE RUBBER PER ZZ–R–765.
COLOR BAND	MIL–DTL–23053/5 CLASS 1.

6. FINISH

SMA BODY	NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000200 MIN. THK.) OVER NICKEL, WOODS OR WATTS (.000010 MIN. THK.)
COUPLING NUT	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
SMP BODY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 (.000150 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATORS, O–RING, GASKET & RETAINING RING	N/A