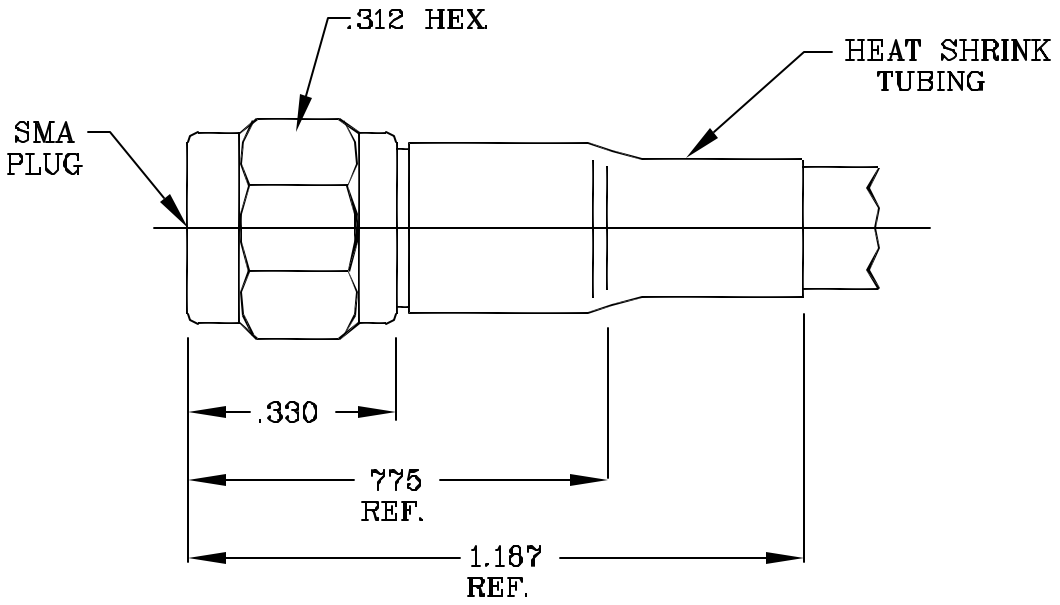
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR PLUG PER MIL-STD-348 (Fig. 310-1) AND DYNAWAVE MD-98.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❁	1.15 + .04 x FGHz.
INSERTION LOSS (dB MAX.) ❁	.06 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

REV.	DCN NO.	DATE	APP.
-	1144	4/95	T.S.

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 65 √ MIL-STD 10.

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN	T.S.	DATE	4/95
APPROVED		DATE	4/95

TITLE
SMA, PLUG
STRAIGHT, CRIMP ATTACHMENT
FOR RG316 DOUBLE BRAID

CODE IDENT.	SHEET 1 OF 2
2J899	

DWG. NO. 9800-1830-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	6.0 LBS.
• MIN. RADIAL TORQUE	4.0 IN.OZ.
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	N/A
• WITHDRAWAL (MIN. OUNCES)	N/A
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°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

BODY AND COUPLING NUT	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER D–1457
SOLDER SLEEVE	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
GASKET	SILICONE RUBBER PER ZZ–R–765 CLASS IIB, GRADE 50 OR 60.
HEAT SHRINK TUBING	RNF–100, TYPE 1, PER MIL–I–23053/5, CLASS 1

6. FINISH

BODY AND COUPLING NUT	PASSIVATE PER QQ–P–35C, TYPE VI
CENTER CONTACT AND SOLDER SLEEVE	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 OVER NICKEL PER QQ–N–290 CLASS 1 (.00015 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.)
INSULATOR, RETAINING RING, GASKET AND HEAT SHRINK TUBING	N/A