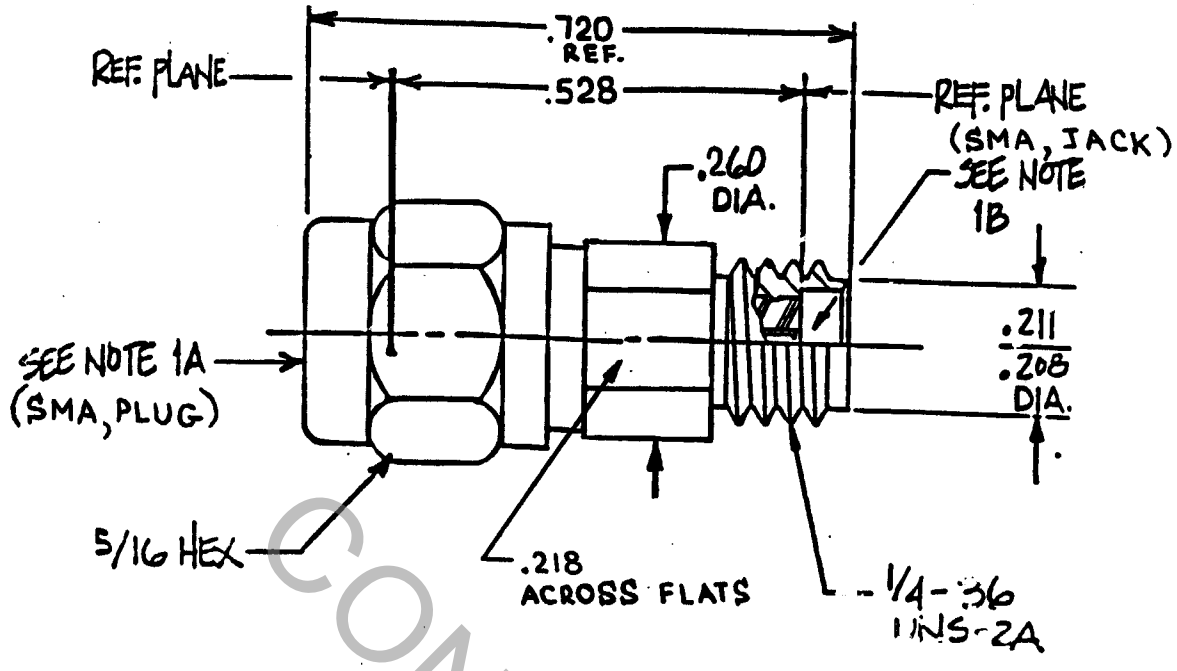
SPECIFICATION CONTROL DRAWING



1. MATING
   1A. INTERFACE DIMENSIONS PER MIL-STD-348/SMA SERIES and DYNAWAVE MD-98. (FIG. 310-1)
   1B. INTERFACE DIMENSIONS PER MIL-STD-348/SMA SERIES and DYNAWAVE MD-99. (FIG. 310-2)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 27.0 GHz
VSWR (MAX.) *	1.04 + .005 x FGHz
INSERTION LOSS (dB MAX.) *	.035dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO +165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
•CENTER CONTACT (MAX. MILLIOHMS)	6.0
•OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
–	1005	8/93	TS

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

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN TS DATE 8/93
APPROVED DATE

TITLE: SMA JACK/PLUG ADAPTER

CODE IDENT. 2J899
SHEET 1 OF 2
DWG. NO. 1107-9899-6472

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	6.0 LBS.
● MIN. RADIAL TORQUE	N/A
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)	1,000
RECOMMENDED MATING TORQUE (SMA PLUG)	7 – 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (−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.) (250 VRMS)

5. MATERIAL

BODY AND COUPLING NUT	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON PER MIL-P-19463 and L-P-403, TYPE 1.
GASKET	SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY AND COUPLING NUT	GOLD PER MIL-G-45204, TYPE I, GRADE C CLASS 1
CONTACT	GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)
GASKET	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2
INSULATOR	N/A