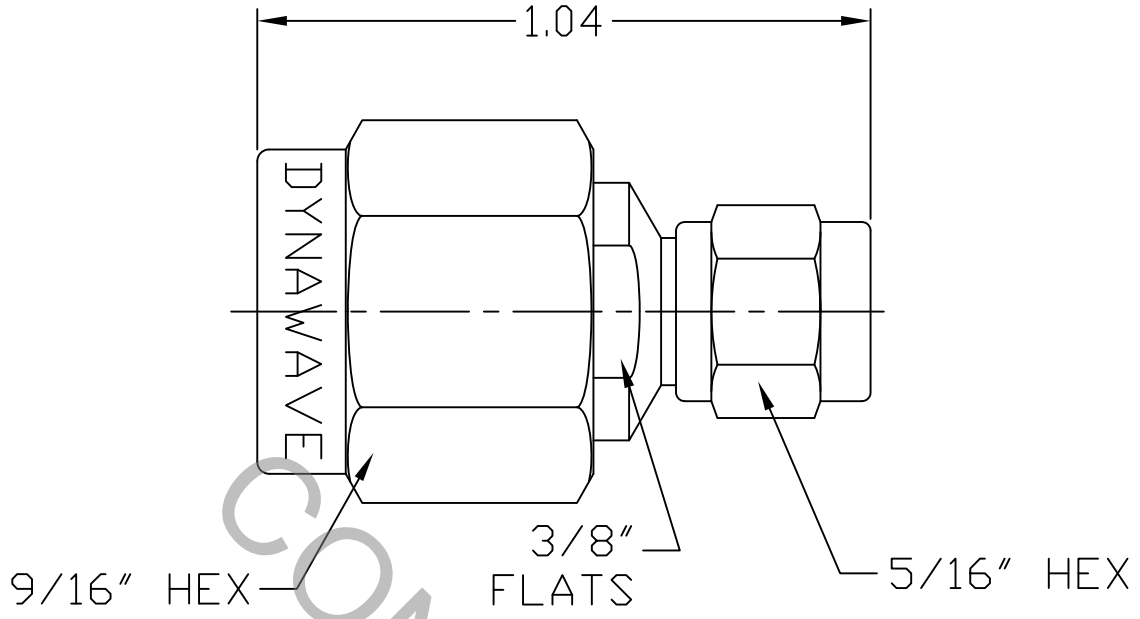
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348
Fig. 313.3 (TNCA PLUG) AND 310.1 (SMA PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.06 + .013 FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	415
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,250
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1137	2/9/10	TS

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 TS DATE 2/9/10

APPROVED DC DATE 2/9/10

TITLE
TNCA PLUG TO
SMA PLUG ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-8498-6201

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	6.0 LBS.
● MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES (REAR)	
● INSERTION (MAX. OUNCES)	32.0
● WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. MATING)	500
RECOMMENDED MATING TORQUE	15 TO 18 IN. LBS. TNC 7 TO 10 IN. LBS. SMA

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.) (310 VRMS)

5. MATERIAL

CONNECTOR BODY & COUPLING NUTS	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT & RETAINING RINGS	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C–17300, TEMPER TD04
INSULATORS	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
GASKETS	SILICONE RUBBER PER ZZ–R–765, CLASS IIB, GRADE 50 OR 60

6. FINISH

CONNECTOR BODY AND COUPLING NUTS	PASSIVATE PER AMS QQ–P–35, TYPE 2.
CENTER CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN.) OVER NICKEL PER QQ–N–290, (.000050 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.).
INSULATORS, GASKETS AND RETAINING RINGS	N/A