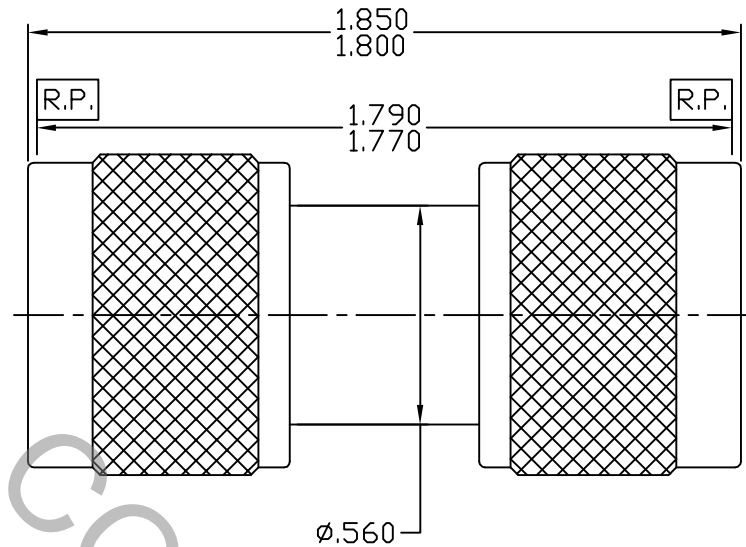


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 304.1 (N PLUG).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX) *	1.06 + .008 x FGHz.
INSERTION LOSS (dB MAX.)	.050 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	-90 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO +165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	07-1598	6/12/07	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1'0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			TITLE  <b>N PLUG TO N PLUG ADAPTER</b>
				DRAWN DC	DATE 6/12/07		
				APPROVED DC	DATE 6/12/07		
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 1100-7474-2720

# 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) \_\_\_\_\_ N/A
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 10 TO 15 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. ) ( 375 VRMS )

## 5. MATERIAL

CONNECTOR BODY & COUPLING NUT \_\_\_\_\_ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

CENTER CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196, COPPER ALLOY  
UNS-C-17300, TEMPER TD04

INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710

GASKET \_\_\_\_\_ SILICON RUBBER PER ZZ-R-765

## 6. FINISH

CONNECTOR BODY & COUPLING NUT \_\_\_\_\_ NICKEL PER QQ-N-290, CLASS 1  
(.000200 MIN.) OVER COPPER PER MIL-C-14550  
(.000010 MIN.)

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000050 MIN.) OVER COPPER PER MIL-C-14550  
(.000010 MIN.)

INSULATOR, RETAINING RING & GASKET \_\_\_\_\_ N/A