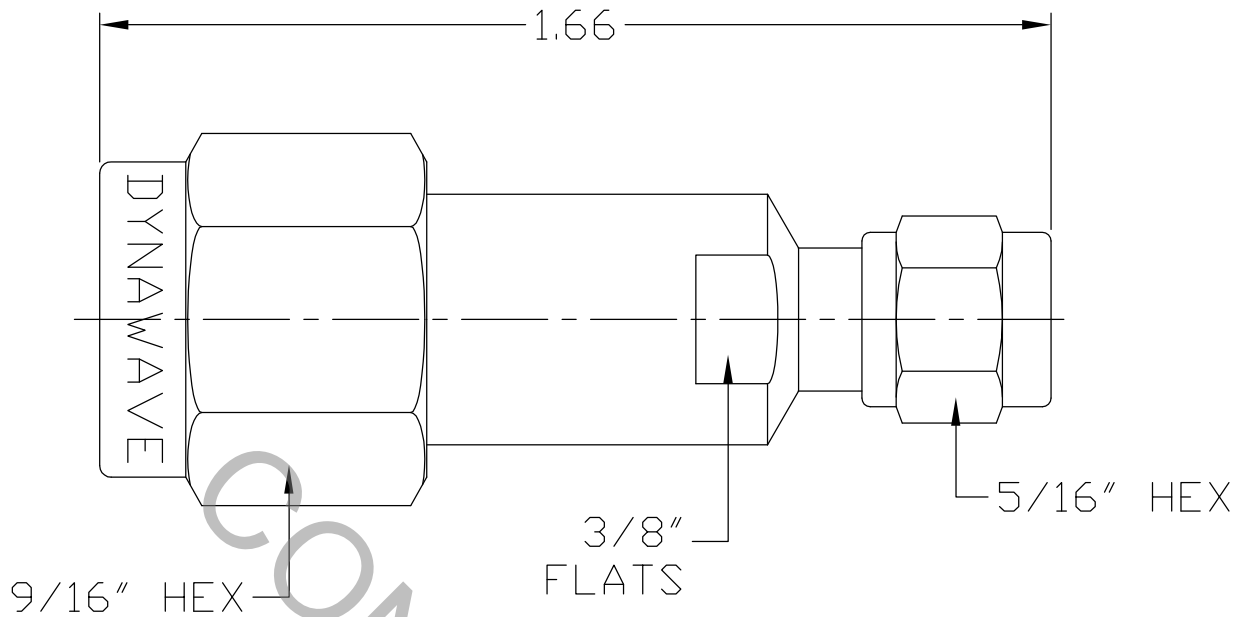


# SPECIFICATION CONTROL DRAWING




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.) *                  | .050 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

|      |         |         |      |  |                      |  |
|------|---------|---------|------|--|----------------------|--|
| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES             |                      | <br>HAVERHILL, MA 01835 |
| AA   | 06-1977 | 8/11/06 | DC   | DECIMALS<br>.X ± .030<br>.XX ± .010<br>.XXX ± .005 | FRACTIONAL<br>± 1/64 |  |
|      |         |         |      | SURFACE ROUGHNESS 63 √ MIL-STD 10.                 |                      | TITLE<br>TNCA PLUG TO<br>SMA PLUG ADAPTER  |
|      |         |         |      | DRAWN DC   | DATE 8/11/06         |  |
|      |         |         |      | APPROVED DC  | DATE 8/11/06         |  |
|      |         |         |      | CODE IDENT.<br>2J899                               | SHEET 1 OF 2         | DWG.<br>NO. 1100-8498-6251   |

# 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, COPPER ALLOY  
UNS-C-17300, TEMPER TD04

INSULATORS \_\_\_\_\_ TEFLON PER ASTM D 4894-91

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