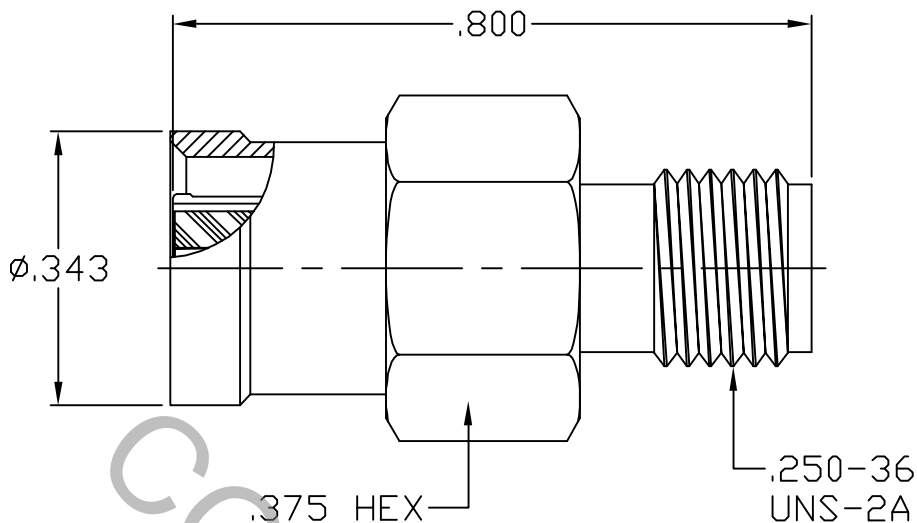


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per DYNAWAVE MD-25-4 (DMS JACK) AND MIL-STD-348 Fig. 310.2 (SMA JACK).

## 2. ELECTRICAL

|   |       |                               |
|---|-------|-------------------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 23.0 GHz                |
| VSWR (MAX) *                                | _____ | 1.05 + .005 x FGHz            |
| INSERTION LOSS (dB MAX) *                   | _____ | .03 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS)                    | _____ | 50                            |
| VOLTAGE RATING (MAX. VRMS)                  | _____ | 250                           |
| RF LEAKAGE (MIN. dB DOWN)                   | _____ | -85 dB - FGHz                 |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____ | -65°c TO + 165°c              |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750                           |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | _____ | 5,000                         |
| 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. | DIMENSIONS ARE IN INCHES<br>TOLERANCES             |                      |                                       | HAVERHILL, MA 01835                      |
|------|---------|--------|------|--|----------------------|---------------------------------------|--|
| AA   | 07-1254 | 3/9/07 | DC   | DECIMALS<br>.X ± .030<br>.XX ± .010<br>.XXX ± .005 | FRACTIONAL<br>± 1/64 | ANGULAR<br>X ° ± 1'0"<br>X ° X' ± 15' |  |
|      |         |        |      | DRAWN DC   | DATE                 | 3/9/07                                | TITLE<br>DMS JACK TO SMA JACK<br>ADAPTER |
|      |         |        |      | APPROVED DC  | DATE                 | 3/9/07                                |  |
|      |         |        |      | CODE IDENT.<br>2J899                               | SHEET                | 1 OF 2                                | DWG. NO. 1100-2599-6240                  |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 6.0 LBS.

MAX RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) \_\_\_\_\_ INTERFACES 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACES 2.0

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

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

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 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. ) ( 190 VRMS )

## 5. MATERIAL

BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACT & SPRING FINGERS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY  
No. UNS-C17300, TEMPER TD04.

INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710.

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.

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

INSULATORS \_\_\_\_\_ N/A