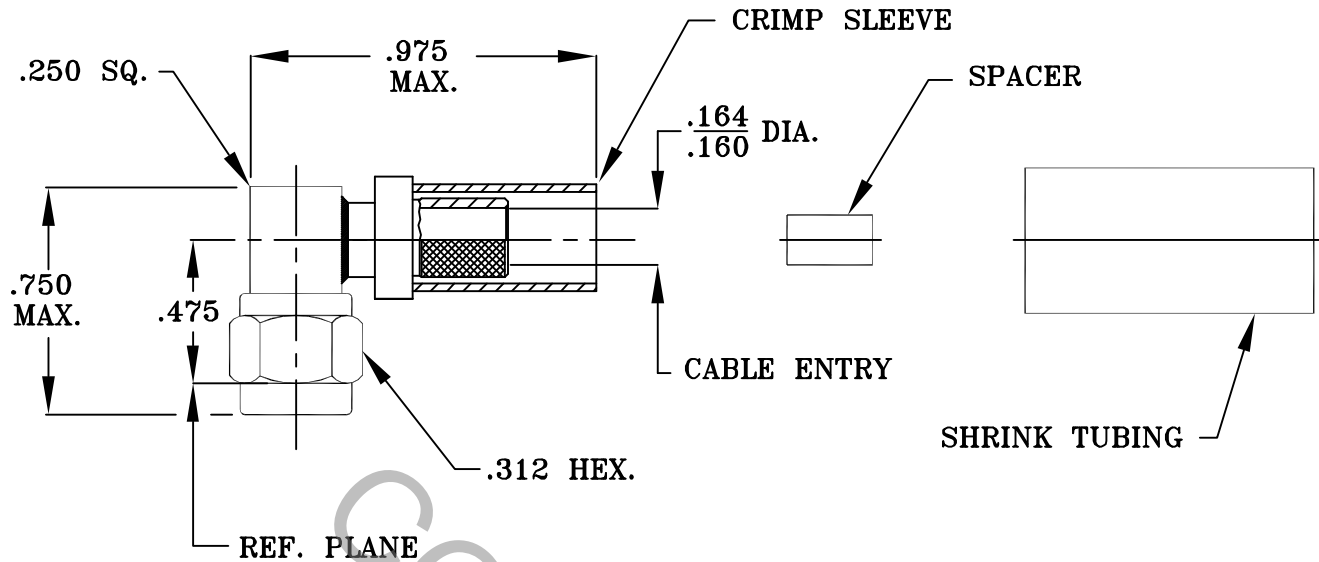


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-98-1.

## 2. ELECTRICAL

|   |                    |
|---|--------------------|
| FREQUENCY RANGE GHz                         | DC TO 10.0 GHz.    |
| VSWR (MAX.) *                               | 1.35 : 1           |
| INSERTION LOSS (dB MAX.)*                   | .15 dB MAX.        |
| 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)           | 4.0                |
| • 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   | 99-0559 | 7/14/99 | DGG  | DECIMALS                               | FRACTIONAL   | ANGULAR                   |   |
|      |         |         |      | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64       | X° ± 1° 0'<br>X° X' ± 15' |   |
|      |         |         |      | DRAWN                                  | MTM          | DATE                      | TITLE SMA, PLUG, R/A,<br>CRIMP ATTACHMENT<br>TO LMR-240-FR FLEXIBLE<br>CABLE (P/N: 54029)                     |
|      |         |         |      | APPROVED                               | DGG          | DATE                      |   |
|      |         |         |      | CODE IDENT.                            | SHEET 1 OF 2 |                           | DWG.<br>NO. 9801-2430-2180  |
|      |         |         |      | 2J899                                  |              |                           |   |

# 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. IN./LBS.) \_\_\_\_\_ 2.0

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

### RECOMMENDED MATING TORQUE

INTERFACE \_\_\_\_\_ 7.0 TO 10.0 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

CONNECTOR BODY , CENTER CONTACT AND CRIMP SLEEVE — BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 581, TYPE 303. COND. A

RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.

INSULATOR AND SPACER \_\_\_\_\_ TEFLON PER ASTM D 4894-91

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

SHRINK TUBING \_\_\_\_\_ POLYOLEFIN PER MIL-I-23058/5 COLOR (BLACK)

## 6. FINISH

CONNECTOR BODY AND CRIMP SLEEVE \_\_\_\_\_ "TRI-M3" ALLOY, 55%-60% COPPER, 25%-28% TIN AND 14%-18% ZINC. .0001 TO .0002 THICK.

COUPLING NUT \_\_\_\_\_ PASSIVATE PER QQ-P-35C, TYPE VI

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 2, CODE A, CLASS 1.5  
(.000010 MAX.) OVER COPPER PER MIL-C-14550 (.000040 MIN. THK.)

RETAINING RING, INSULATOR, SPACER, GASKET, \_\_\_\_\_ N/A  
AND SHRINK TUBING



SHEET 2 OF 2

DWG.  
NO.

9801-2430-2180

REV.

AA