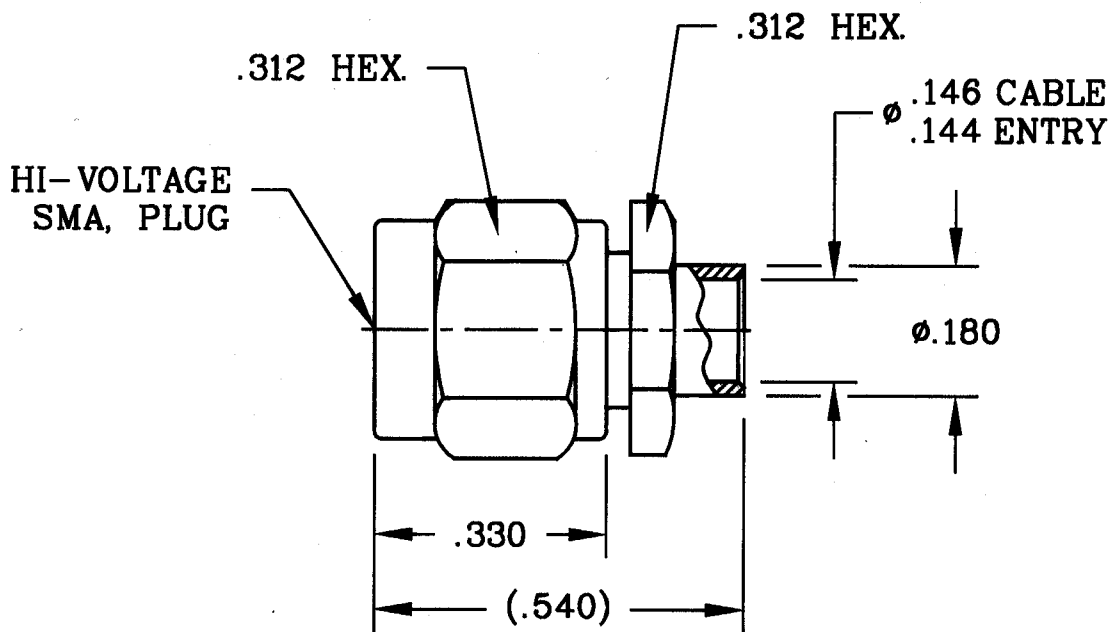


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR HI-VOLTAGE PLUG PER DYNAWAVE SPECIFICATION MD-58.

## 2. ELECTRICAL

|                                            |                                |
|--------------------------------------------|--------------------------------|
| FREQUENCY RANGE GHz                        | DC TO 4.0 GHz.                 |
| VSWR (MAX) *                               | 1.10 + .010 FGHz.              |
| INSERTION LOSS (dB MAX) *                  | .05 dB x $\sqrt{\text{FGHz.}}$ |
| NOMINAL IMPEDANCE (OHMS)                   | 50                             |
| VOLTAGE RATING (MAX VRMS)                  | 800                            |
| RF LEAKAGE (MIN. dB DOWN)                  | 100 dB - FGHz.                 |
| TEMPERATURE RATING (DEGREES CENTIGRADE)    | -65° c TO +165° c              |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX VRMS) | 2,500                          |
| INSULATION RESISTANCE (MIN. MEGOHMS)       | 5,000                          |
| CONTACT RESISTANCE                         |                                |
| • CENTER CONTACT (MAX. MILLIOHMS)          | 3.0                            |
| • OUTER CONTACT (MAX. MILLIOHMS)           | 2.0                            |

\* TERMINATED IN A 50 OHM LOAD

|      |         |      |      |                                                 |                        |                                      |                                                                                                                                 |
|------|---------|------|------|-------------------------------------------------|------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES          |                        |                                      | <br>INCORPORATED<br><br>HAVERHILL MA 01836 |
| AA   | 03-1261 | 2/03 | DGG  | DECIMALS<br>X ± .030<br>XX ± .010<br>XXX ± .006 | FRACTIONAL<br><br>3/64 | ANGULAR<br>X° ± 1' 0"<br>X° X' ± 15" |                                                                                                                                 |
|      |         |      |      | SURFACE ROUGHNESS 63 ✓ MIL-STD 10.              |                        |                                      |                                                                                                                                 |
|      |         |      |      | DRAWN G.E. DATE 2/25/03                         |                        |                                      | TITLE<br>SMA, HI-VOLTAGE PLUG<br>TO .141 S.R. CABLE<br>DIRECT SOLDER ATTACHMENT                                                 |
|      |         |      |      | APPROVED DGG DATE 2/25/03                       |                        |                                      |                                                                                                                                 |
|      |         |      |      |                                                 |                        |                                      |                                                                                                                                 |
|      |         |      |      | CODE IDENT.<br>2J899                            | SHEET 1 OF 2           |                                      | DWG.<br>NO. 5800-4126-6400                                                                                                      |
|      |         |      |      |                                                 |                        |                                      |                                                                                                                                 |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ N/A
- 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 \_\_\_\_\_ 7-10 INCH 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. ) ( 625 VRMS )

## 5. MATERIAL

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

RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
UNS C 17800, TEMPER TD04

GASKETS (2) \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765 CLASS IIB, GRADE 50 OR 60.

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290,  
CLASS 1 (.000150 MIN. THK.) OVER (WOODS OR WATTS),  
(.000010 MIN. THK.)

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

GASKETS AND RETAINING RING \_\_\_\_\_ N/A

**dynawave**  
INCORPORATED

SHEET 2 OF 2

DWG.  
NO.

5800-4126-6400

REV.

AA