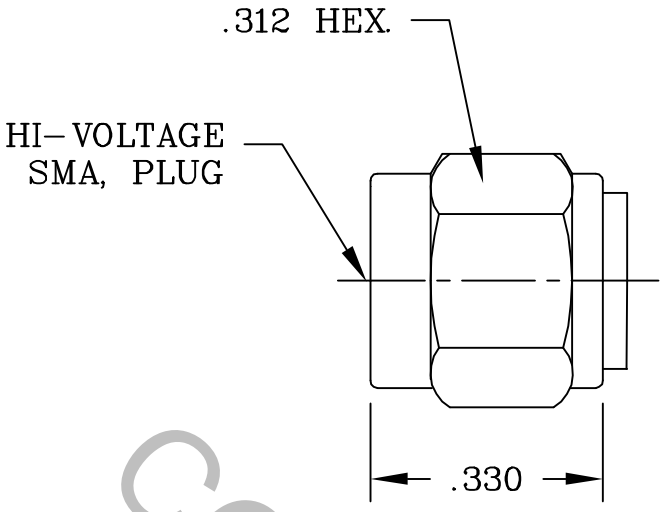
# SPECIFICATION CONTROL DRAWING

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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 $\sqrt{F}$GHz. |
| 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. |
|---|---|---|---|
| AA | 05–1664 | 6/10/05 | DC |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ±.030<br>.XX ±.010<br>.XXX ±.005 | ±1/64 | X° ±1°0'<br>X° X' ±15' |

SURFACE ROUGHNESS 63 √ MIL–STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN SS DATE 6/10/05

APPROVED DC DATE 6/10/05

TITLE
SMA, HI–VOLTAGE PLUG
TO .141 S.R. CABLE
DIRECT SOLDER ATTACHMENT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5800–4426–6402

# 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 ) |

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## 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 | GOLD PER ATSM B 488, TYPE 1, CODE C, CLASS 0.25 (.000010 MIN. THK.) OVER NICKEL PER QQ–N–290 (.00005 – .00010 THK.) OR NICKEL PER MIL–P–27418 |
| GASKETS AND RETAINING RING | N/A |