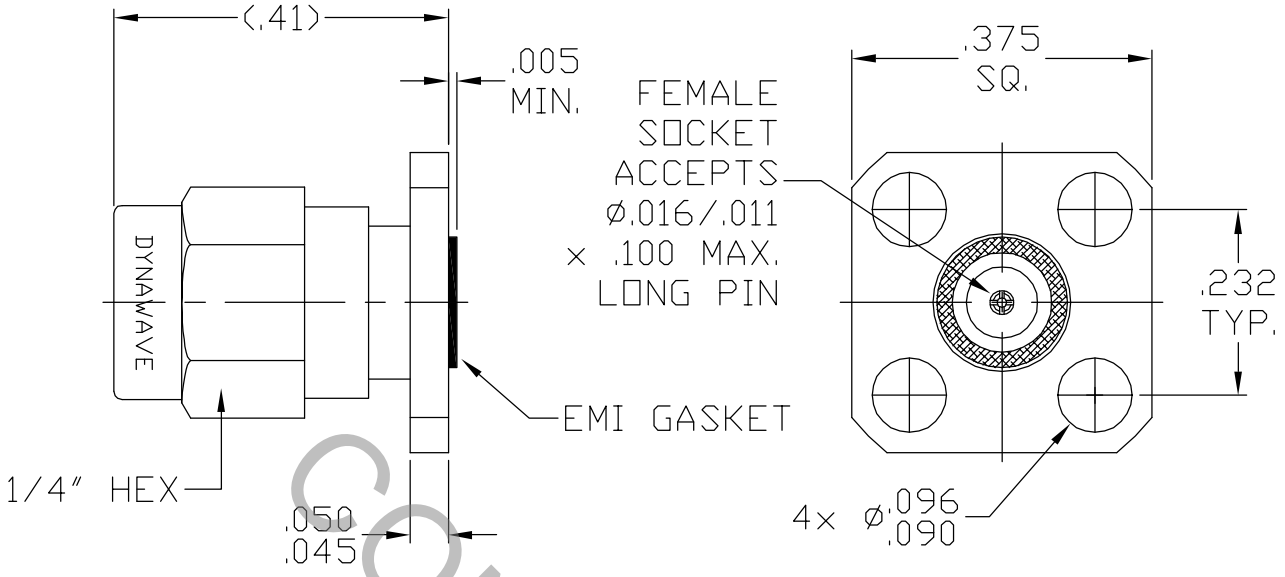
# SPECIFICATION CONTROL DRAWING






1. MATING INTERFACE DIMENSIONS Per DYNAWAVE MD-96 (SSMA PLUG AIR INTERFACE).

## 2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 46.0 GHz |
| VSWR (MAX.) ❋ | 1.06 + .007 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .04 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 250 |
| RF LEAKAGE (MIN. dB DOWN) | 100 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) | 8.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| - | 551 | 7/88 | TS |
| A | 977 | 6/93 | MB |
| AA | 07-1158 | 2/13/07 | 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' |

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 7/88

APPROVED DGG DATE 7/88

TITLE
SSMA JACK
4 HOLE FLANGE
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9654-0781-6215

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT

| | |
|---|---|
| MAX. AXIAL FORCE | 4.5 LBS. |
| MAX. RADIAL TORQUE | 1.5 IN. OZS. |

CENTER CONTACT AXIAL FORCES

| | |
|---|---|
| ● INSERTION (MAX. OUNCES) | INTERFACE 32.0, REAR 32.0 |
| ● WITHDRAWAL (MIN. OUNCES) | INTERFACE 2.0, REAR 1.0 |
| CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) | 2.0 |
| CONNECTOR DURABILITY (MIN. CYCLES) | 500 |
| RECOMMENDED MATING TORQUE | 5 – 8 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. ) ( 190 VRMS ) |

## 5. MATERIAL

| | |
|---|---|
| BODY & COUPLING NUT | STAINLESS STEEL PER ASTM–A–581, TYPE 303, COND. A |
| CONTACT & RETAINING RING | BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM–D1710. |
| GASKET | SILICONE RUBBER PER ZZ–R–765. |
| EMI GASKET | SILVER PLATED ALUMINUM IN SILICONE. |

## 6. FINISH

| | |
|---|---|
| BODY & COUPLING NUT | PASSIVATE PER AMS QQ–P–35, TYPE 2. |
| CONTACT | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5<br>(.000100 MIN. THK.) OVER NICKEL per QQ–N–290<br>(.000050 MIN. THK.) OVER COPPER per MIL–C–14550<br>(.000010 MIN. THK.) |
| INSULATOR, RETAINING RING & GASKETS | N/A |