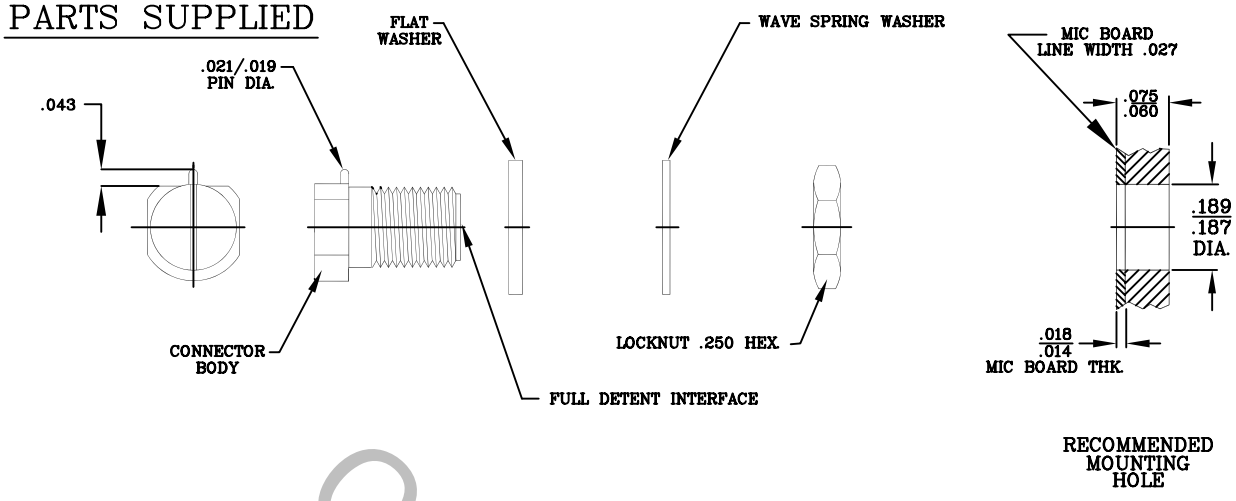
# SPECIFICATION CONTROL DRAWING

## PARTS SUPPLIED

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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21 AND MIL-STD-348, FIG.326-2.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz. |
| VSWR (MAX.) ❋ | 1.35 MAX. |
| INSERTION LOSS (dB MAX.) | .045 dB x $\sqrt{FGHz}$. |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 170 |
| RF LEAKAGE (MIN. dB DOWN) | 100 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65° c TO +150° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 2,500 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 4.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ GATED- TEST DATA.

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 99-0738 | 8/3/99 | DGG |
| AB | 01-0177 | 3/1/01 | DGG |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ± .030, .XX ± .010, .XXX ± .005
FRACTIONAL: ± 1/64
ANGULAR: X° ± 1°0', X° X' ± 15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN KLF DATE 8/3/99

APPROVED DGG DATE 8/3/99

TITLE: SMP, PLUG
FULL DETENT
MIC, MULTILAYER BOARD
ORTHOGONAL (R/A)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2173-0341-6420

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 3.5 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR MATING FORCES

- ENGAGE (MAX. LBS.) — 15.0
- DISENGAGE (MIN. LBS.) — 5.0

CONNECTOR DURABILITY (MIN. MATING) — 100

## 4. ENVIRONMENTAL

| | |
|---|---|
| TEMPERATURE CYCLING | MIL–STD–202, METHOD 102, COND. C ( –65 ° c TO + 200 °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. ) ( 125 VRMS ) |

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## 5. MATERIAL

| | |
|---|---|
| BODY, HEX NUT, LOCKWASHER AND WAVE SPRING | STAINLESS STEEL PER ASTM A 581, TYPE 303, COND A. |
| CONTACT | BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM D 4894–91 |
| CAP | BRASS PER ASTM B16, TEMPER H02, ALLOY C36000 |

## 6. FINISH

| | |
|---|---|
| BODY AND CAP | GOLD PER MIL–G–45204, TYPE I, GRADE C, CLASS 1 (.000050 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (.000010 MIN.) |
| HEX NUT, LOCKWASHER AND WAVE SPRING | PASSIVATE PER QQ–P–35C TYPE VI (6). |
| CONTACT | GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.) |
| INSULATOR | N/A |