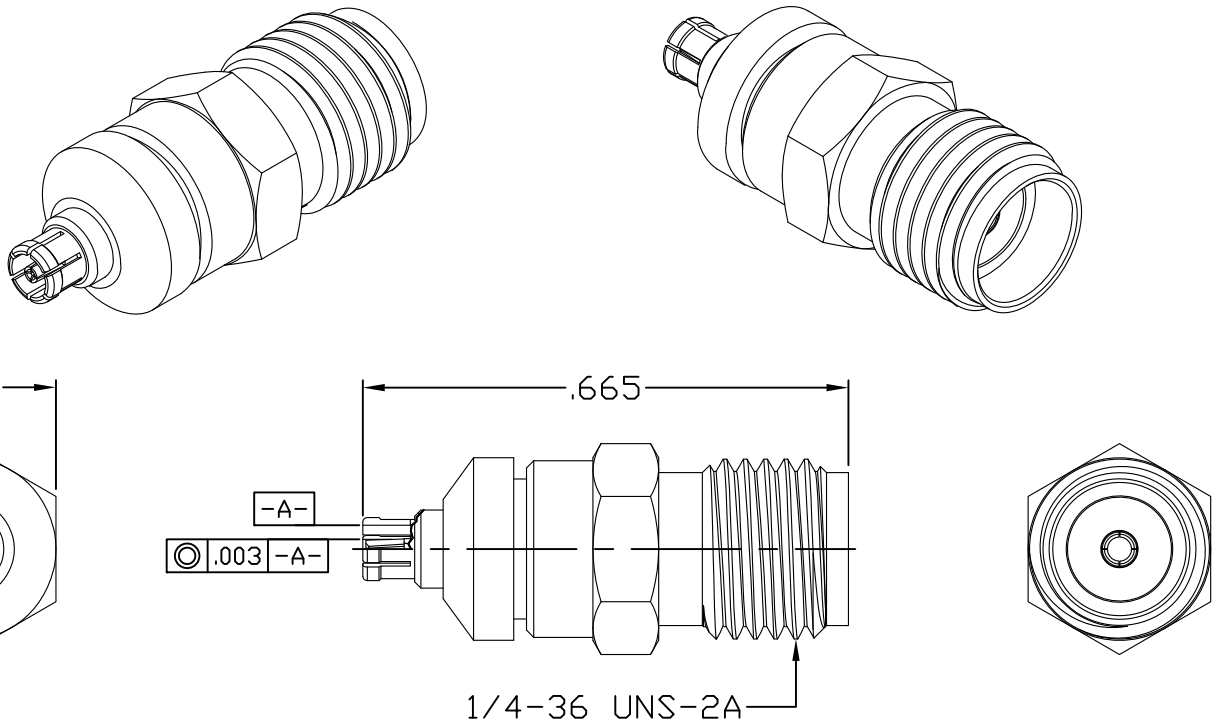
# SPECIFICATION CONTROL DRAWING




## 1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 328.1 (SMPM JACK)
INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.2 (SMA JACK)

## 2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 26.5 GHz |
| VSWR (MAX.) ❋ | 1.05 + .004 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .04 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 170 |
| RF LEAKAGE (MIN. dB DOWN) | −080 dB − FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

**RoHS**
COMPLIANT



| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 03-1111 | 1/28/03 | BN |
| AB | 03-1597 | 5/7/03 | DC |
| AC | 06-1825 | 7/12/06 | DC |
| AD | 16-1536 | 4/28/16 | DC |
| AE | 17-2061 | 9/6/17 | 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 BN DATE 1/28/03

APPROVED BN DATE 1/28/03

TITLE
SMPM JACK TO
SMA JACK ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-3099-5450

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

| | |
|---|---|
| CAPTIVATION–CENTER CONTACT | |
| MAX.AXIAL FORCE | 4.0 LBS. |
| MAX. RADIAL TORQUE | N/A |
| CENTER CONTACT AXIAL FORCES | |
| ● INSERTION (MAX. OUNCES) | INTERFACE 32.0 |
| ● WITHDRAWAL (MIN. OUNCES) | INTERFACE 1.0 |
| CONNECTOR ENGAGEMENT (MAX. IN LBS.) | SMA 2.0, FULL DETENT 6.5, SMOOTH BORE 1.5 |
| CONNECTOR DISENGAGEMENT (MIN. IN LBS.) | FULL DETENT 5.0, SMOOTH BORE 0.5 |
| CONNECTOR DURABILITY (MIN. CYCLES) | SMA 500, FULL DETENT 100, SMOOTH BORE 500 |
| RECOMMENDED MATING TORQUE | 7 TO 10 In./Lbs. SMA |



## 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. ) ( 125 VRMS ) |

## 5. MATERIAL

| | |
|---|---|
| SMA BODY | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| SMPM BODY & CONTACT | BERYLLIUM COPPER PER ASTM–B196/B 196M–03 COPPER ALLOY No. UNS–C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B. |

## 6. FINISH

| | |
|---|---|
| SMA BODY | PASSIVATE PER AMS–2700, TYPE 2, CLASS 4. |
| SMPM BODY | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290, CLASS 1 (.000100 MIN. THK.) OVER COPPER per AMS–2418 (.000040 MIN. THK.) |
| CONTACT | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.) |
| INSULATOR | N/A |