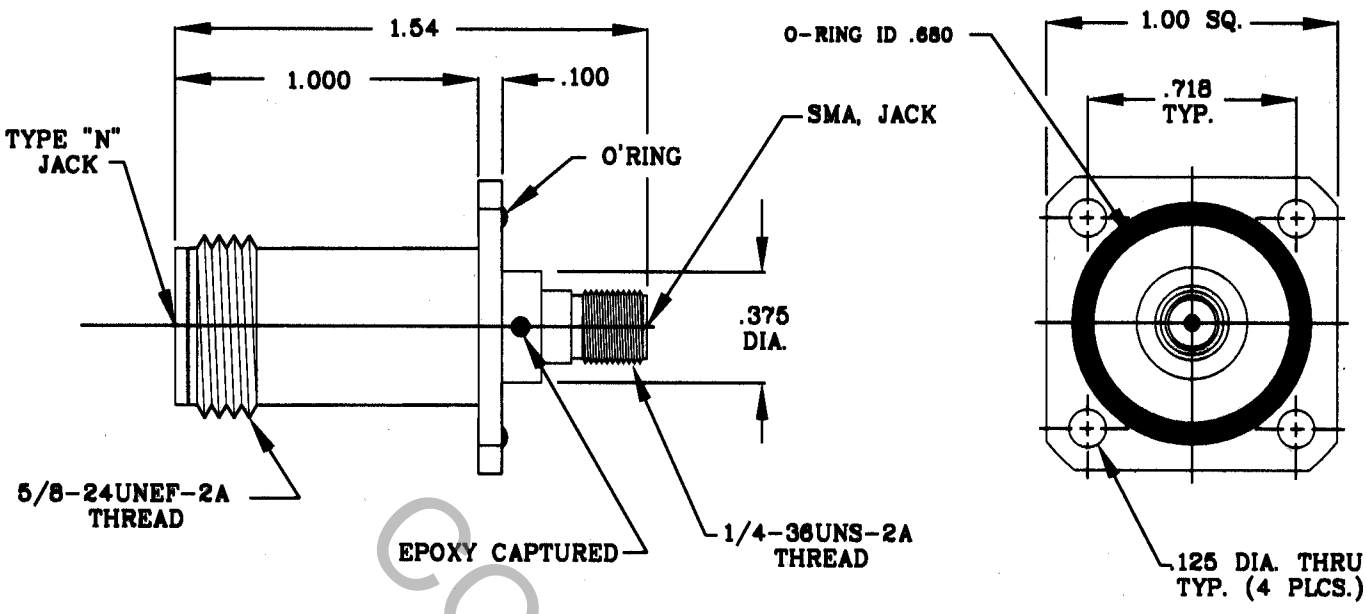
# SPECIFICATION CONTROL DRAWING






1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, (Fig. 304.2) TYPE "N" JACK, (Fig. 310.2) SMA, JACK AND DYNAWAVE SPEC. MD-75 AND MD-99 RESPECTIVELY.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz. |
| VSWR (MAX.) * | 1.07 + .010 x FGHz. |
| INSERTION LOSS (dB MAX.) | .050 dB x $\sqrt{FGHz}$. |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 250 |
| RF LEAKAGE (MIN. dB DOWN) | 70 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65° c TO +165° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 4.5 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

* TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 02-0205 | 3-25-02 | T.S |
| AB | 02-0227 | 3-27-02 | T.S |
| AC | 02-0349 | 6/18/02 | BW |
| | | | |
| | | | |
| | | | |
| | | | |

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 B.N. DATE 3-21-02

APPROVED T.S DATE 3-25-02

TITLE
TYPE "N", JACK
TO SMA, JACK 4 HOLE
SQ. FLANGE ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1154-7599-2101

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 10.0 LBS.
- MIN. RADIAL TORQUE — 4.0 IN. OZ.

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — 32.0
- WITHDRAWAL (MIN. OUNCES) — 2.0

CONNECTOR DURABILITY (MIN. MATING) — 500

## 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. ) ( 250 VRMS ) |



## 5. MATERIAL

| | |
|---|---|
| CONNECTOR BODY | BRASS PER ASTM B16, TEMPER H02, ALLOY C36000. |
| CENTER CONTACT | BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04. |
| INSULATOR | TEFLON PER ASTM D 4894-91. |
| O'RING | SILICON RUBBER PER AMS-3304, COLOR RUST, GRADE 70. |

## 6. FINISH

| | |
|---|---|
| CONNECTOR BODY | TRI- METAL ALLOY COMPRISED OF 55% - 60% COPPER, 25% - 28% TIN AND 14% - 18% ZINC. |
| CENTER 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 & O'RING | N/A |