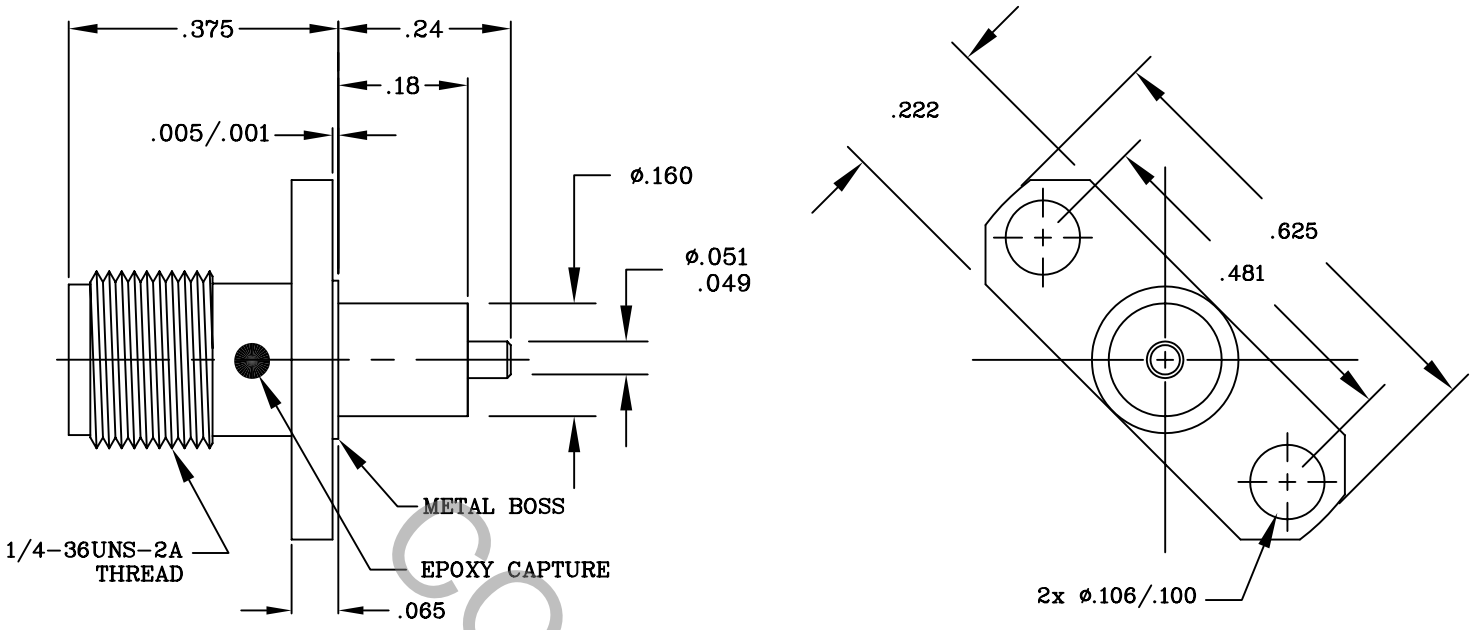
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, (Fig. 310.2), SMA, JACK AND DYNAWAVE SPECIFICATION MD-99.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.05 + .008 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.040 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	90 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 °c TO + 150 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
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	06-2172	9/20/06	TS
AB	06-2180	9/25/06	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±/64	X °±1 0' X ° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 9/20/06

APPROVED DC DATE 9/20/06

TITLE
SMA, JACK
2 HOLE FLANGE MOUNT
STRAIGHT TERMINAL
WITH METAL BOSS

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9952-0832-2400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX.AXIAL FORCE — 6.0 LBS.
- MAX. RADIAL TORQUE — 4.0 IN. OZ.

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — 48.0
- WITHDRAWAL (MIN. OUNCES) — 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — 7 – 10 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.) (250 VRMS)

CONFIDENTIAL

5. MATERIAL

BODY	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C 17800, TEMPER TD04
INSULATOR	TEFLON PER ASTM D 1710

6. FINISH

BODY	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 0.5 (.000020 Minimum Thickness) OVER NICKEL per QQ–N–290, CLASS 1 (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000040 Minimum Thickess).
CONTACT	GOLD per MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000020 Minimum Thickness) OVER NICKEL per QQ–N–290, CLASS 1 (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000040 Minimum Thickess).
INSULATOR	N/A