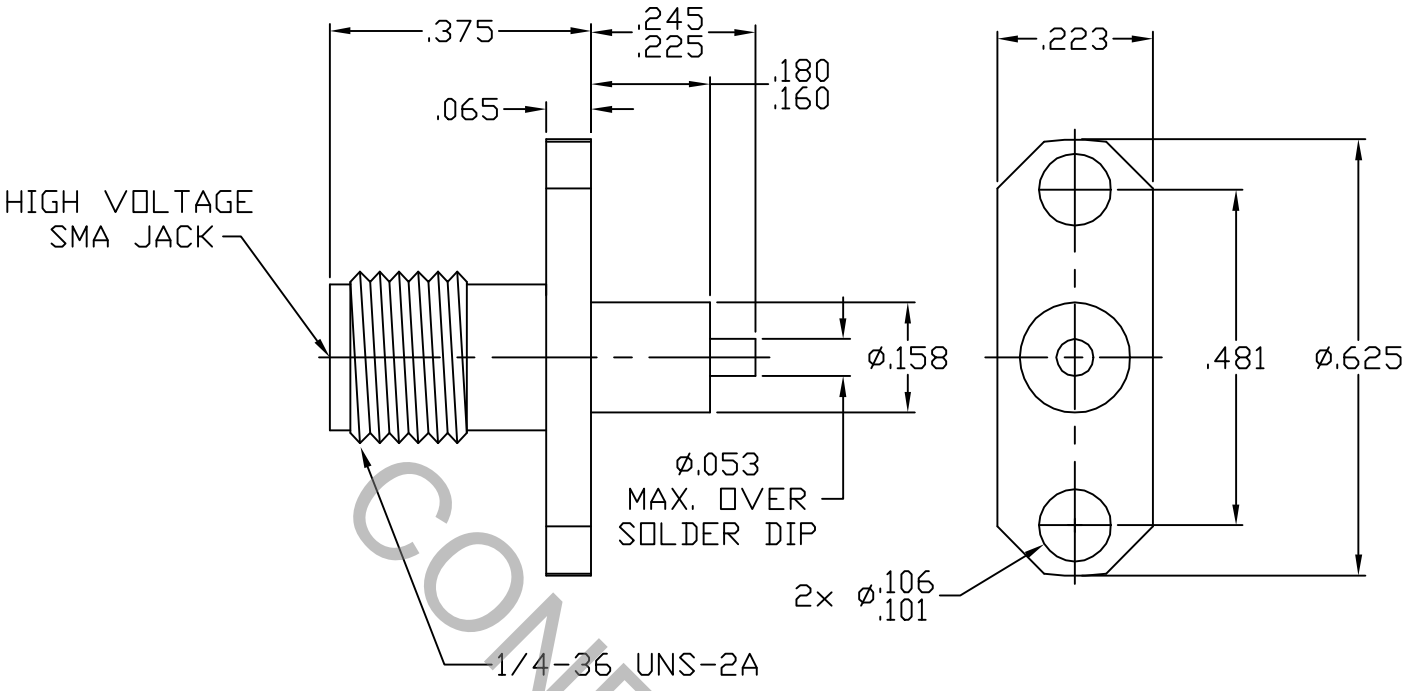
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-59

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 4.0 GHz.
VSWR (MAX.) ❋	1.40:1
INSERTION LOSS (dB MAX.) ❋	.050 dB x $\sqrt{FGHz.}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	1,600, SEA LEVEL; 400, 70,000 FT
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° C TO + 165 ° C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	3,200
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CURRENT AMPS (MAX)	12
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	04-1163	2/6/04	DC
AB	04-1323	3/11/04	DC
AC	04-1801	6/24/04	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 2/6/04

APPROVED DC DATE 2/6/04

TITLE SMA, JACK
HIGH VOLTAGE INTERFACE
2 HOLE FLG. MOUNT
STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5952-0031-6484

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

MAX.AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES)	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 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.) (800 VRMS)

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5. MATERIAL

BODY	STAINLESS STEEL PER AMS 5640, 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.

6. FINISH

BODY	GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25 (.000050 MIN. THK) OVER NICKEL PER QQ–N–290, CLASS 1, (.000150 MIN. THK) OVER COPPER PER MIL–C–14550, (.000010 MIN. THK)
CONTACT	**GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL per QQ–N–290 (.000050 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)**
INSULATOR	N/A