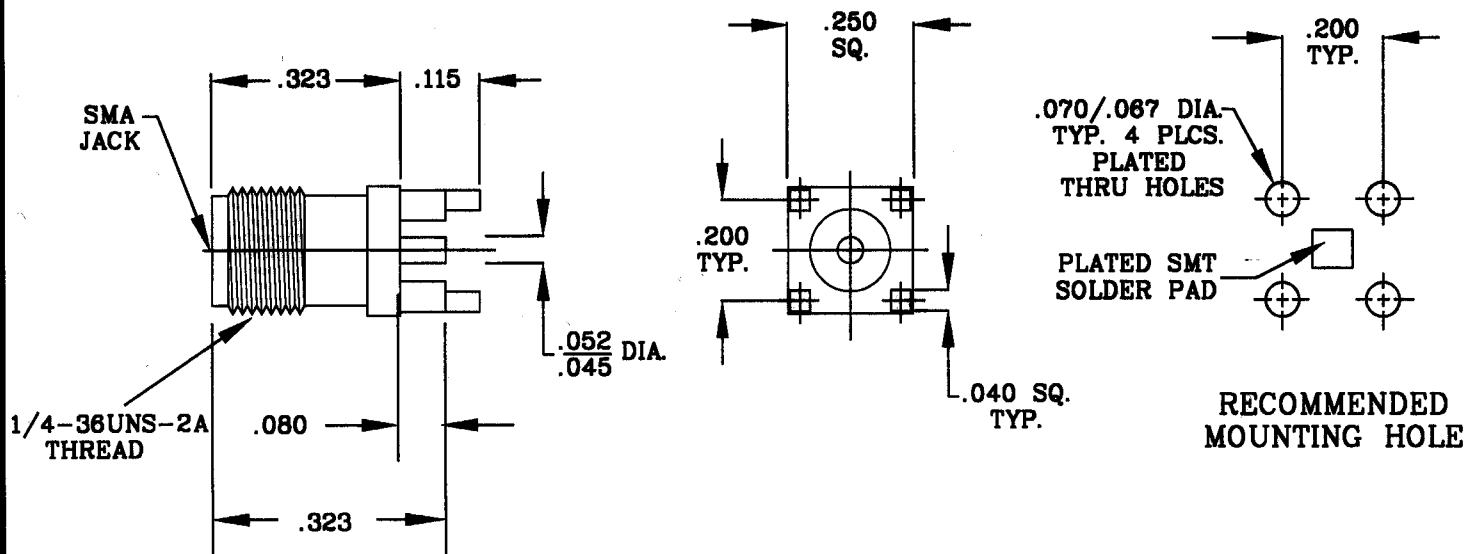


SPECIFICATION CONTROL DRAWING




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 8.0 GHz.
VSWR (MAX) *	_____	1.05 + .007 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX VRMS)	_____	335
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +165° 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.	DIMENSIONS ARE IN INCHES TOLERANCES			 GEORGETOWN MA. 01833
AA	03-1337	3-12-03	B.C.	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1' 0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$			TITLE SMA, JACK STRAIGHT 4 POST, P.C. MOUNT WITH SMT CENTER MOUNT STRAIGHT TERMINAL
				DRAWN	BN	DATE 3/12/03	
				APPROVED	B.C.	DATE 3-12-03	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9920-0031-2151
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR DURABILITY (MIN. MATING) _____ 500

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 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.) (250 VRMS)

5. MATERIAL

CONNECTOR BODY _____ BRASS PER ASTM B36, TEMPER H02, ALLOY C36000
CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR _____ TEFLON PER D 4894

6. FINISH

CONNECTOR BODY _____ "TRI-M-M3" ALLOY, 55%-60% COPPER, 25%-28% TIN
AND 14%-18% ZINC. .0001 TO .0002 THICK.
CENTER CONTACT _____ GOLD PER ASTM B488, 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

 **dynawave**
INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9920-0031-6400

REV.

AA