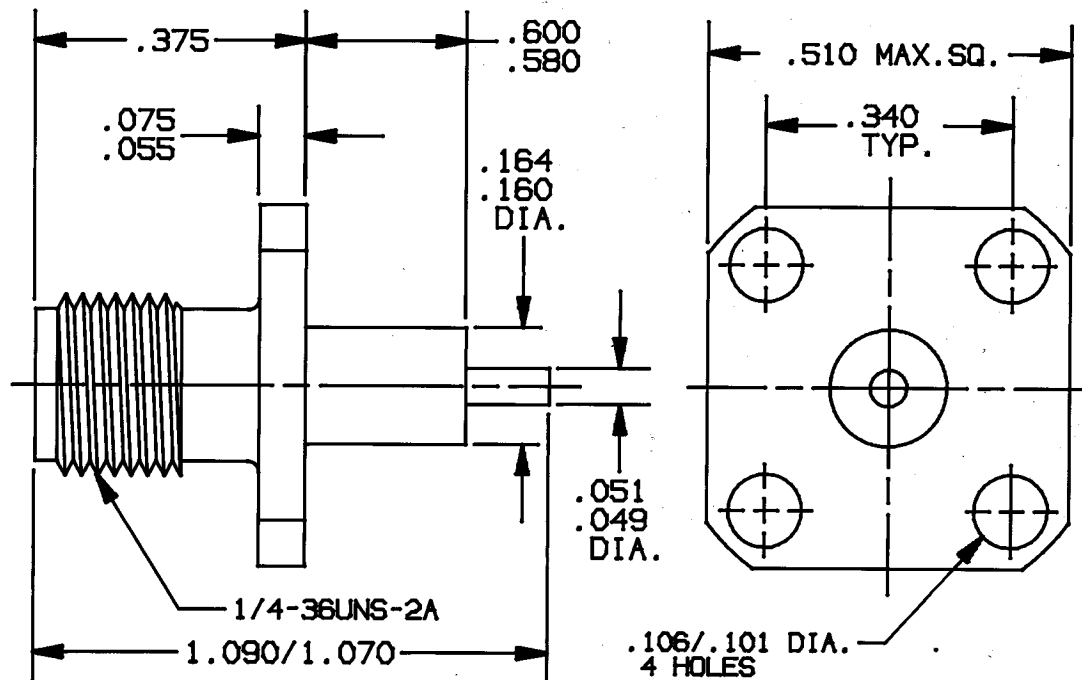


CONFIGURATION (TOLERANCE +/- .005 UNLESS OTHERWISE SPECIFIED)



SMA JACK, 4 HOLE, FLANGE MOUNT, PANEL RECEPTACLE WITH PROBE TERMINATION

MATERIAL & FINISH:

BODY: STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A, GOLD PLATED PER MIL-G-45204, TYPE 1, GRADE C, CLASS 1; OVER NICKEL PER MIL-C-26074, CLASS 1.

CONTACT: BERYLLIUM COPPER PER QQ-C-530, COND H, ALLOY 173, GOLD PLATED PER MIL-G-45204, TYPE 1, GRADE C, CLASS 2; OVER COPPER PER MIL-C-14550, CLASS 4.

INSULATOR: TEFLON PER ASTM-D1710 & L-P-403, TYPE 1.

ELECTRICAL:

DWG. NO.

M83517/4-31005

NOMINAL IMPEDANCE (OHMS) 50
 FREQUENCY RANGE (GHz) DC TO 18.0
 VOLTAGE RATING (MAX. VRMS) 600
 VSWR (MAX.) $\pm 1.08 \pm .005 \times \text{FGHz}$
 INSERTION LOSS (DB MAX.) $\pm .05$
 RF LEAKAGE (MIN. DB DOWN) 60 DB-FGHz
 RF HIGH POTENTIAL (MAX. VRMS) 1000 AT 5 MHz
 DIELECTRIC WITHSTANDING VOLT. (MAX. VRMS) 1000
 INSULATION RESISTANCE (MIN. MEGOHMS) 5000
 CONTACT RESISTANCE:
 CENTER CONTACT (MAX. MILLIOHMS) 3.0
 OUTER CONTACT (MAX. MILLIOHMS) 2.0

MECHANICAL:

PER MIL-C-83517/4-31005
 SMA SERIES & S/M MD-107

INTERFACE DIMENSIONS
 RECOMMENDED MATING TORQUE 7-10 in. lbs
 CENTER CONTACT AXIAL FORCES:
 INSERTION (MAX. OUNCES) 48.0
 WITHDRAWAL (MIN. OUNCES) 1.0
 CONNECTOR DURABILITY (MIN. CYCLES) 500
 CONNECTOR ENGAGEMENT & DISENGAGEMENT
 (MAX. INCH LBS.) 2.0
 CENTER CONTACT CAPTIVATION 6 LBS. MIN. AXIAL FORCE
 4 INCH OZ. MIN. TORQUE

ENVIRONMENTAL:

TEMP. RATING (DEGREES CENTIGRADE) -65°C TO +165°C
 VIBRATION (MIL-STD-202, METHOD 204, CONDITION D, 20G, S)
 SHOCK (MIL-STD-202, METHOD 213, COND. I, 100G, S)
 TEMP CYCLING (MIL-STD-202, METH. 107, COND. B, -65°C to 200°C)
 MOISTURE RESISTANCE (MIL-STD-202, METHOD 106, LESS STEP 7B)
 BAROMETRIC PRESSURE (ALTITUDE) MIL-STD-202, METHOD 105,
 COND. C, 70,000 FT., 250 VRMS
 HERMETICITY N/A

* WHEN PROPERLY TERMINATED IN A 50 OHM LOAD.

SYM.	DESCRIPTION	DATE	APPR.	DRAWN:	APPROVED:
—	REL.F-11569	6/89	RG	D.CARNES	RG
				DATE 6/16/89	DATE 6/19/89

SOLITRON MICROWAVE

1167 BLUE HERON BLVD.
 RIVIERA BEACH, FL., 33404

DWG. NO.

M83517/4-31005