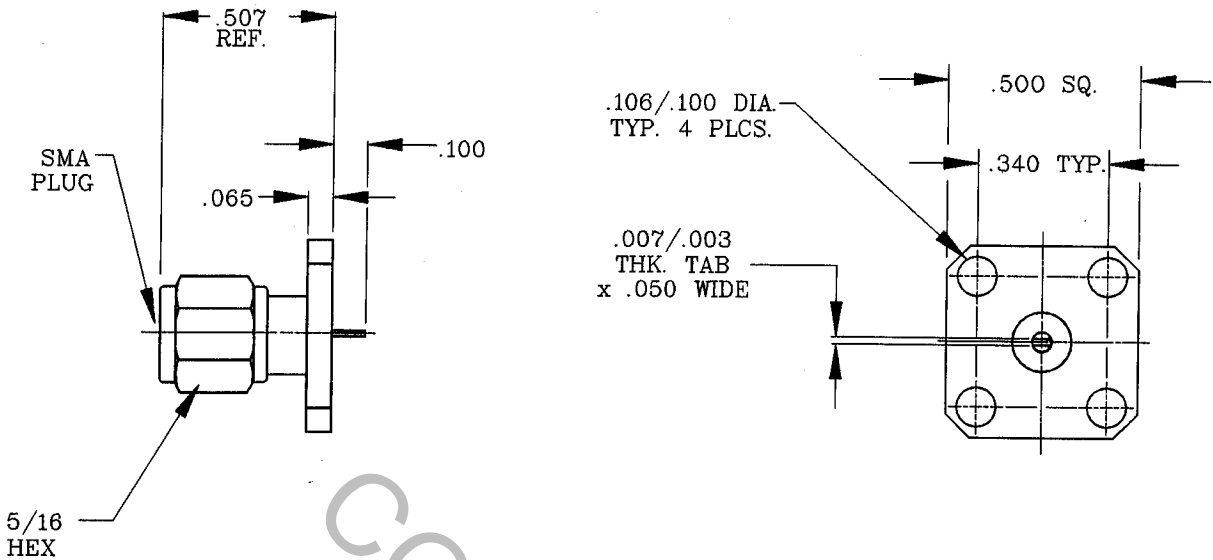


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA PLUG PER MIL-SYD-348 (FIG. 310-1)

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.05 + .008 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)	_____	100 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.	DIMENSIONS ARE IN INCHES TOLERANCES			GEORGETOWN MA. 01833
—	843	2/92	CT	DECIMALS X ± .030 XX ± .010 XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1'0" X° X' ± 15'	
				DRAWN	CT	DATE 2/92	TITLE SMA PLUG 4 HOLE FLANGE TAB TERMINAL
				APPROVED	[Signature]	DATE 2/92	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9854-0052-6218
				2J899			

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) _____ N/A
● WITHDRAWAL (MIN. OUNCES) _____ N/A
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)

5. MATERIAL

BODY & COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. HT
INSULATOR _____ TEFLON PER D 1457
GASKET _____ SILICONE RUBBER PER ZZ-R-765 CLASS IIB,
GRADE 500R 60.

6. FINISH

BODY & COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE I
CONTACT _____ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2
(.000100 Minimum Thickness) OVER NICKEL per
QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER
COPPER per MIL-C-14550 (.000010 Minimum Thickness).
INSULATOR, GASKET & RETAINING RING _____ N/A