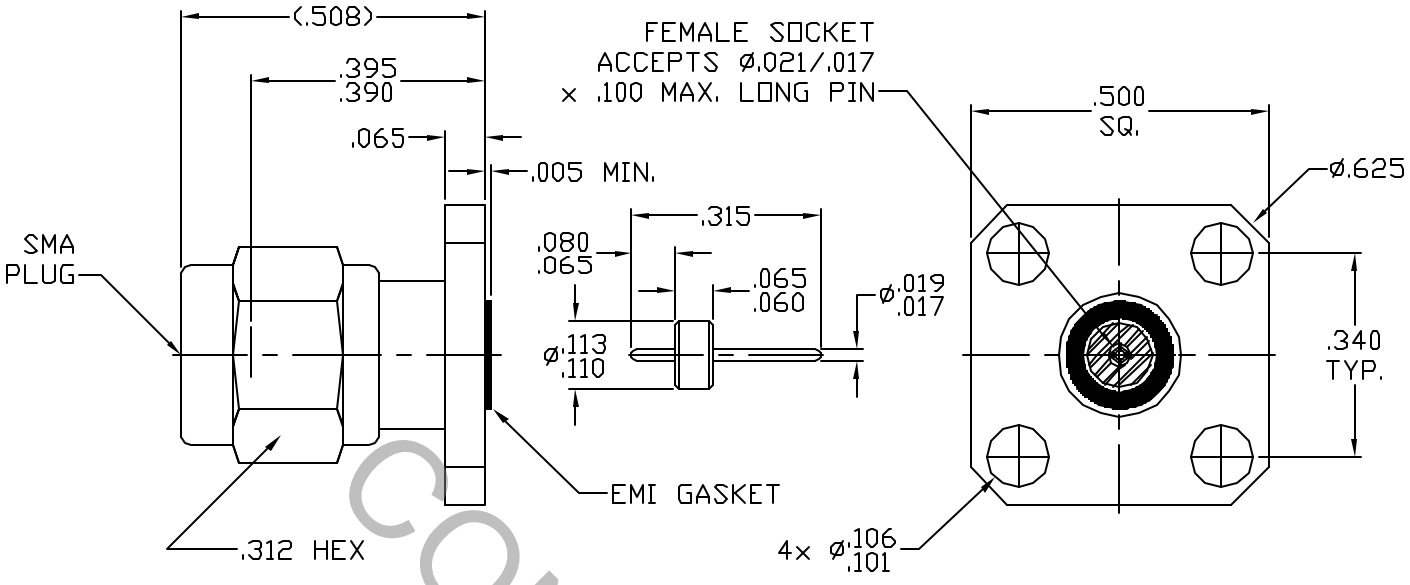
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348 (Fig. 310-1).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❁	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❁	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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	04-1118	1/28/04	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63 √MIL-STD-10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN	DC	DATE 1/28/04
APPROVED	DC	DATE 1/28/04

TITLE: FIELD REPLACEABLE SMA, PLUG 4 HOLE FLANGE HERMETIC LAUNCHER

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		9854-0718-6220

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)	FLANGE END 32.0 OZ.
• WITHDRAWAL (MIN. OUNCES)	FLANGE END 1.0 OZ.

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 + 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.) (10D VRMS)

5. MATERIAL

BODY AND COUPLING NUT	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND A.
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894–91.
GASKET	SILICONE RUBBER per ZZ–R–765 CLASS 1IB, GRADE 50 or 60.
GLASS	CORNING 7070
GLASS PIN AND GLASS RING	KOVAR PER MIL–I–23011

6. FINISH

BODY AND 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 Thickess).
GLASS PIN AND GLASS RING	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1 OVER NICKEL PER QQ–N–290, (.00015 MIN.THK.)
INSULATOR, GASKET AND RETAINING RING, GLASS	N/A