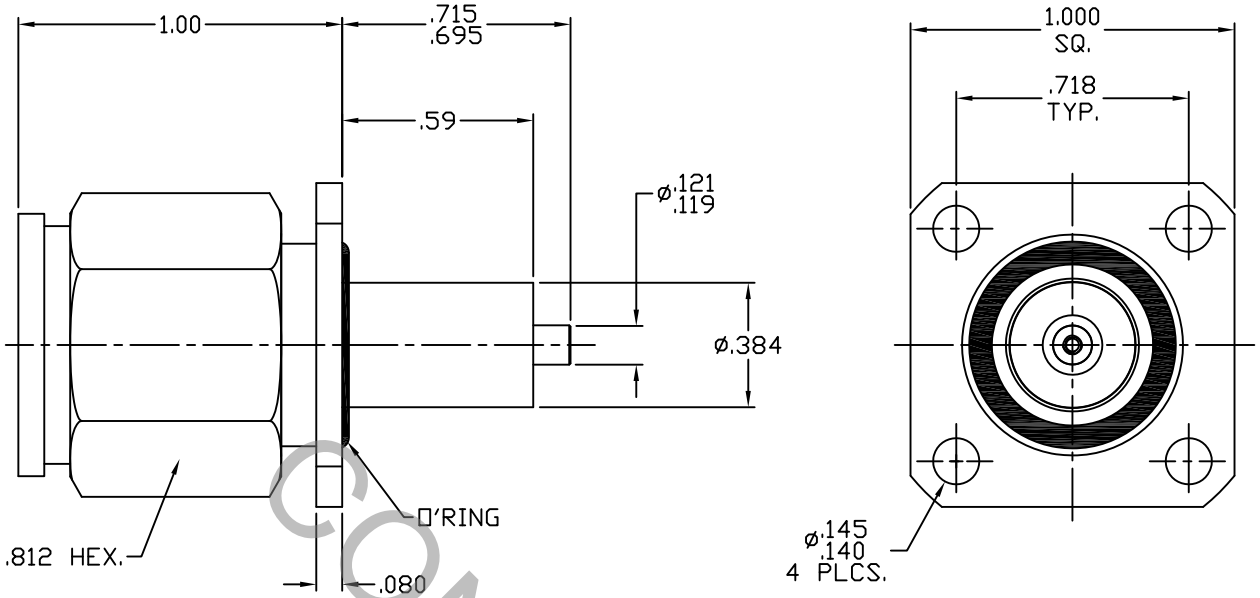
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 309.1 (SC PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 11.0 GHz
VSWR (MAX.) ❋	1.07 + .008 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	1,000
RF LEAKAGE (MIN. dB DOWN)	−85 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	3,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	16-1477	4/14/16	TS

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 4/14/16

APPROVED DC DATE 4/14/16

TITLE SC PLUG
4 HOLE FLANGE
EXTENDED DIELECTRIC
ø.120 PIN TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7854-0631-6250

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR MIS–ALIGMENT	
RADIALL	N/A
AXIAL	N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	250
RECOMMENDED MATING TORQUE	30 – 35 IN. LBS.

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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.) (750 VRMS)
CW POWER @ 1.0 GHz.	3,000 WATTS

5. MATERIAL

BODY AND COUPLING NUT	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM–B196/B 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING AND GASKET	SILICONE RUBBER PER ZZ–R–765E, CLASS 1 OR ASM 3304.

6. FINISH

BODY AND COUPLING NUT	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
INSULATOR, O'RING, RETAINING RING AND GASKET	N/A