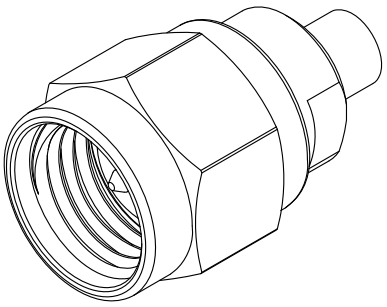
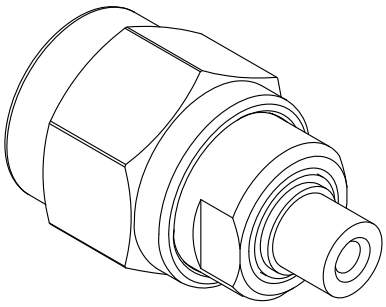
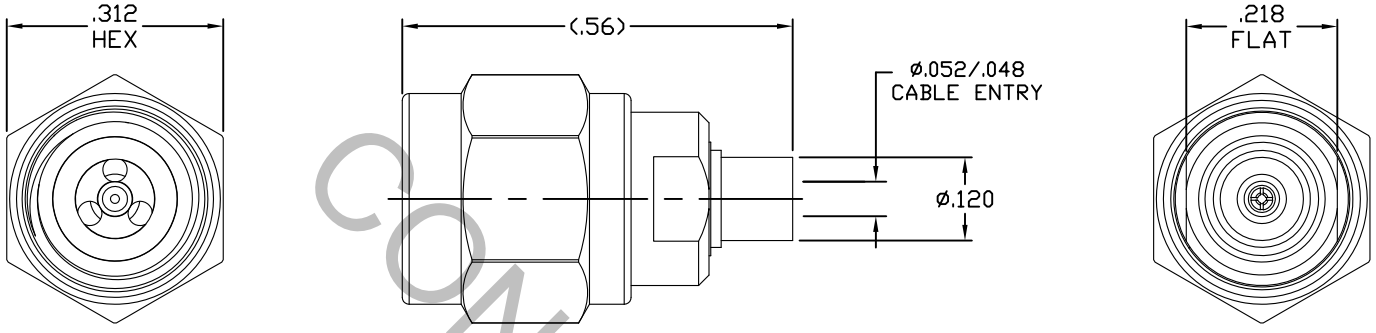
SPECIFICATION CONTROL DRAWING







CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS PER MIL-STED-348A, 323.1 (2.92mm, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	1.15 + .01 x FGHz
INSERTION LOSS (dB MAX.)	.06 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)	-25°c TO + 125°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• 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	16-2169	9/22/16	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN: RMS DATE: 9/21/16

APP.: DC DATE: 9/22/16

TITLE
2.9mm, MALE, STRAIGHT
DIRECT SOLDER
TO .047 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9400-4725-6201

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)	INTERFACE 48.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT(MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RRECOMMENDED MATING TORQUE	7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C (-25°c TO + 100°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.) (190 VRMS)

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5. MATERIAL

CONNECTOR BODY, SOLDER SLEEVE & C/NUT	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR	PLASTIC COMPOSITE
GASKET	SILICONE RUBBER PER ZZ-R-765.

6. FINISH

CONNECTOR BODY AND COUPLING NUT	PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.000030-.000055 THK.) OVER NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000050-.000075 THK.) OVER COPPER PER AMS-2418, (.000010 MIN. THK.).
SOLDER SLEEVE	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 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
INSULATOR, GASKET & RETAINING RING	N/A