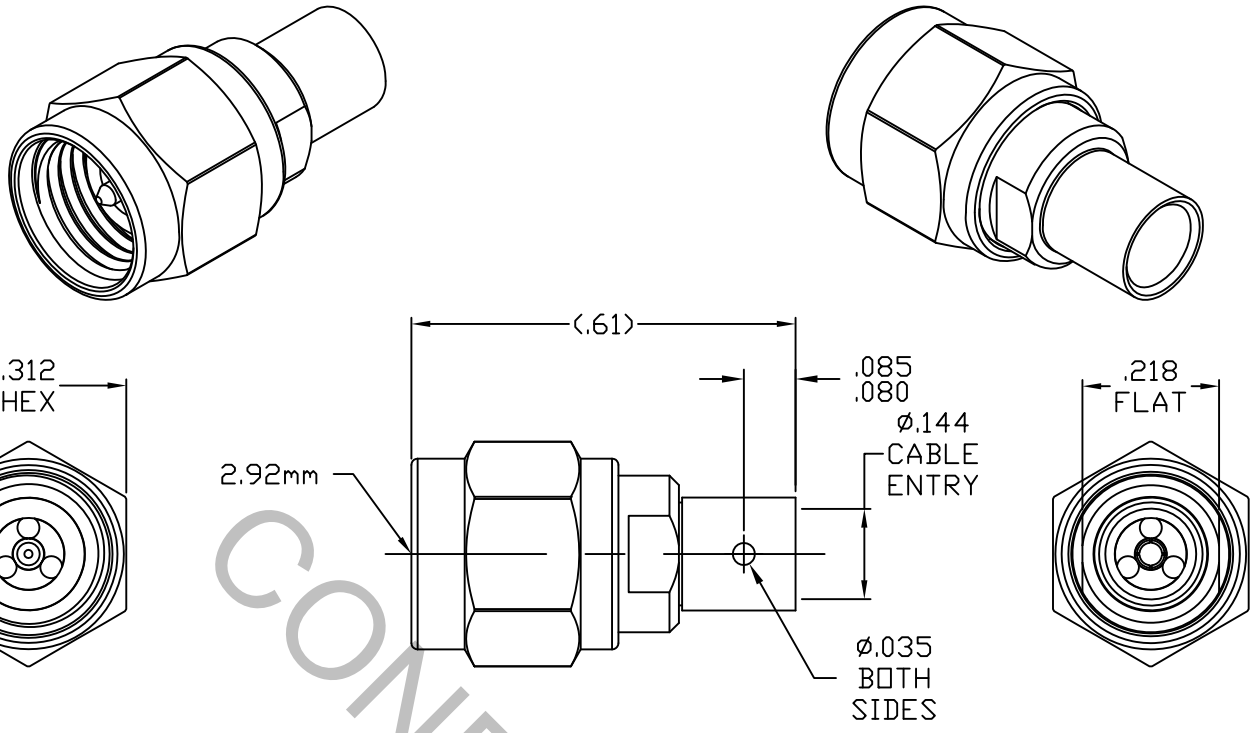
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 323.1 (2.92mm, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 34.0 GHz
VSWR (MAX.) ❋	1.05 + .01 x FGHz
INSERTION LOSS (dB MAX.)	.03 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)	−45 ° 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	07-2169	12/4/07	DC
AB	17-2344	11/27/17	DC

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: 12/4/07

APP.: DC DATE: 12/4/07

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

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9400-4125-6201

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)	N/A
● WITHDRAWAL (MIN. OUNCES)	N/A
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 +125° 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

BODY, PRESS SLEEVE & COUPLING NUT	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACTS & RETAINING RING	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. C17300, TEMPER TD04.
INSULATOR	POLYSTYRENE
GASKET	SILICONE RUBBER PER ZZ–R–765

6. FINISH

PRESS SLEEVE	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 Minimum Thickness) OVER NICKEL per SAE–AMS–QQ–N–290, CLASS 1 (.000150 Minimum Thickness). OVER NICKEL (WOODS OR WATTS) (.000010 Minimum Thickness).
BODY & COUPLING NUT	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACTS	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 0.75 (.000030 Minimum Thickness) OVER NICKEL per SAE–AMS–QQ–N–290 (.000050 Minimum Thickness) OVER COPPER per AMS–2418 (.000010 Minimum Thickness).
INSULATOR, GASKET & RETAINING RING	N/A