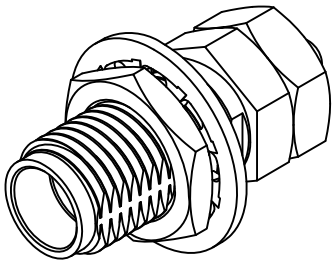
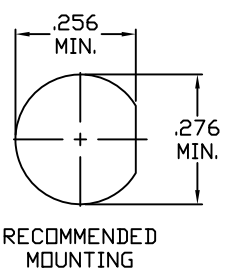
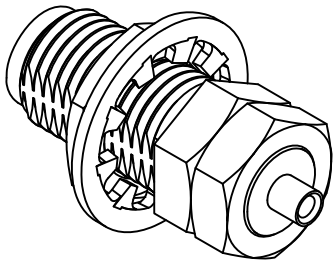
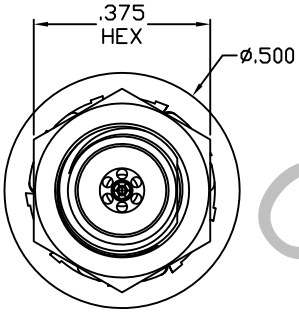
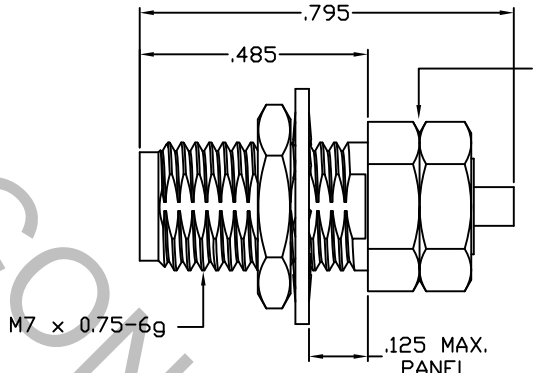
SPECIFICATION CONTROL DRAWING

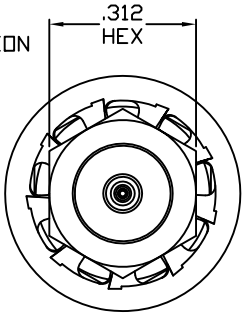












CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS Per MD-13-1 (2.4mm JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 50.0 GHz
VSWR (MAX.) ❋	1.3 : 1 @ 50.0 GHz.
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	208
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 125°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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	14-1678	6/1/14	TS
AB	15-1580	4/16/15	DC
AC	17-1793	6/22/17	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 TS DATE 6/1/14

APPROVED DC DATE 6/1/14

CODE IDENT. 2J899

SHEET 1 OF 2

TITLE 2.4mm JACK, BULKHEAD, DIRECT SOLDER, PLUG-IN CONTACT FOR .047 SEMI RIGID CABLE

DWG. NO. 1310-4725-6200

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 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — 7 – 10 IN. LBS.

CONFIDENTIAL

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, COND. C (–65° 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.) (156 VRMS)

5. MATERIAL

BODY, HEX NUT & PRESS SLEEVE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACTS	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	PLASTIC COMPOSITE
LOCKWASHER	400 SERIES STAINLESS STEEL

6. FINISH

PRESS SLEEVE	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE AMS–QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
BODY, HEX NUT AND LOCKWASHER	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATOR	N/A