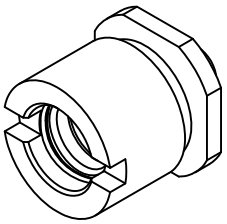
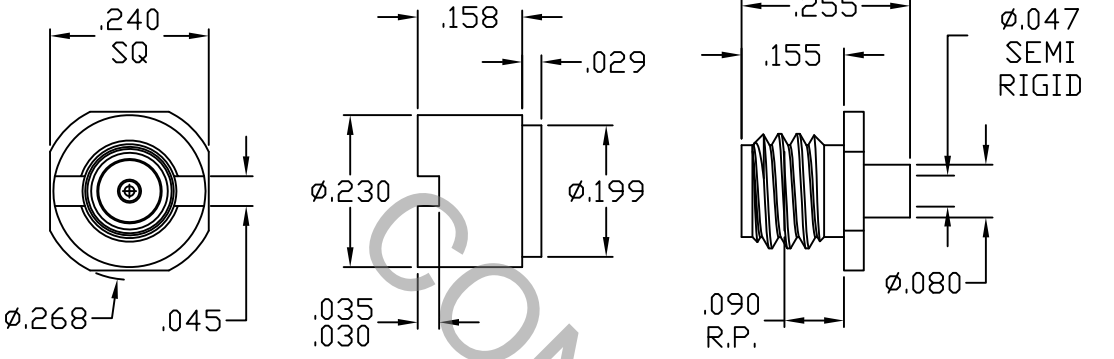
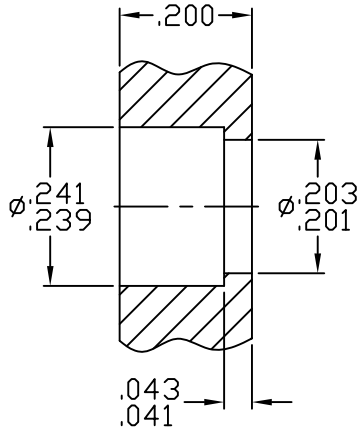
SPECIFICATION CONTROL DRAWING







CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, FIG. 326.2 (SMP MALE, FULL DETENT).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.04 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	-85 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• 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	16-1762	6/22/16	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63√ MIL-STD 10.

DRAWN DC DATE 6/22/16

APPROVED DC DATE 6/22/16

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL MA. 01835

TITLE: SMP MALE (FD) BULKHEAD MOUNT DIRECT SOLDER TO Ø.047 S/R CABLE

DWG. NO. 2110-4721-6201

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — N/A
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR DURABILITY (MIN. MATING) — 1000

- ASSEMBLY TORQUE OF BODIES — 6.0 TO 8.0 IN./LBS.

CONNECTOR INSTALLATION / REMOVAL FORCE.

- INSERTION (MAX. LBS) — 15.0
- WITHDRAWAL (MIN. LBS) — 5.0

TORQUE HEAD — 9–20164–00

TORQUE TOOL — 9–96002

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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.) (94 VRMS)

5. MATERIAL

BODY AND SHROUD	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	TORLON 4023

6. FINISH

SHROUD	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
BODY AND 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.)
INSULATORS	N/A