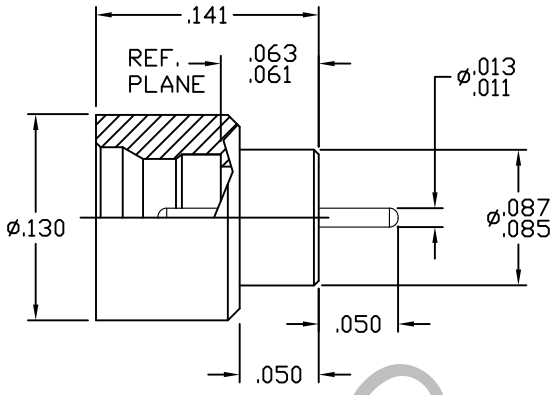
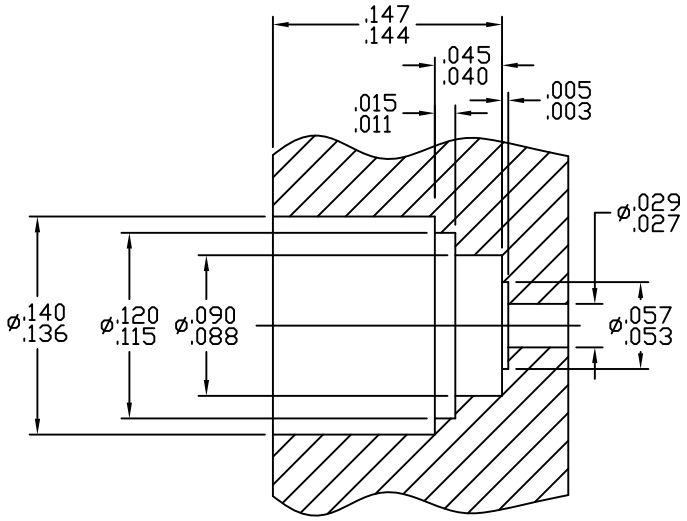
SPECIFICATION CONTROL DRAWING





RECOMMENDED MOUNTING HOLE

CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-51 (SMPSM, PLUG FULL DETENT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 46.0 GHz.
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	10.0
• 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	17-1616	5/12/17	TS

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.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN TS DATE 5/12/17

APPROVED DC DATE 5/12/17

TITLE
SMPSM, MALE,
FULL DETENT,
SOLDER-IN SHROUD,

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5140-0031-6450

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — 6.5 LBS.
- WITHDRAWAL (MIN. OUNCES) — 3.5 LBS.

CONNECTOR DURABILITY (MIN. MATING) — 100

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 200 °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.) (90 VRMS)

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5. MATERIAL

BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY No. UNS C 17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY AND CENTER CONTACT	GOLD PER ASTM A 488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN. THICK) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000150 MIN. THICK) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR	N/A