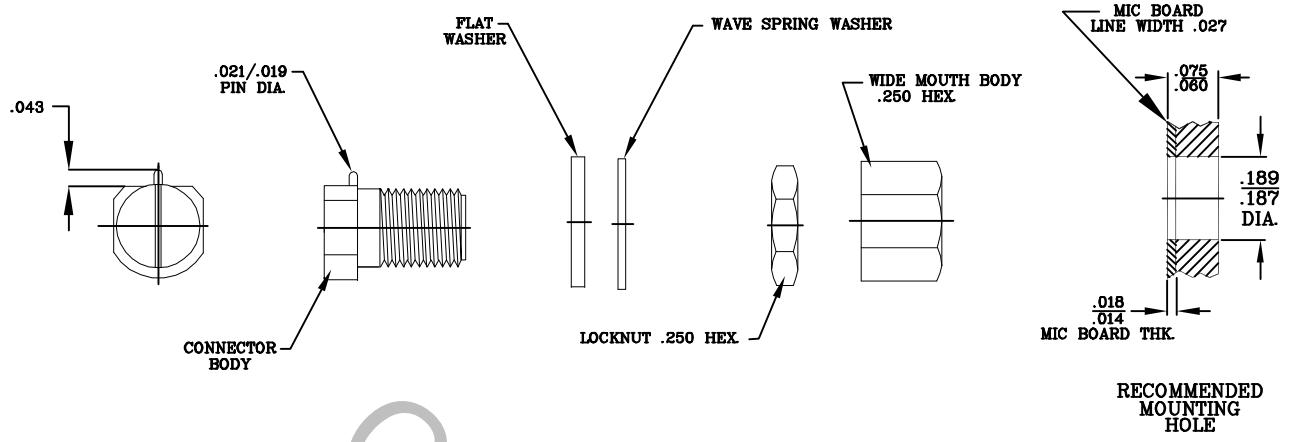
SPECIFICATION CONTROL DRAWING

PARTS SUPPLIED



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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21-9.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.35 MAX.
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ GATED- TEST DATA.

REV.	DCN NO.	DATE	APP.
AA	99-0740	8/3/99	DGG
AB	00-1455	12/8/00	DGG

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN KLF DATE 8/3/99

APPROVED DGG DATE 8/3/99

TITLE SMP, MALE
SMOOTH BORE
MIC, MULTILAYER BOARD
ORTHOGONAL (R/A)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2193-0341-6420

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 3.5 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR MATING FORCES

- ENGAGE (MAX. LBS.) — 2.0
- DISENGAGE (MIN. LBS.) — 0.5

CONNECTOR DURABILITY (MIN. MATING) — 1,000

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.) (125 VRMS)

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5. MATERIAL

BODY, HEX NUTS(2), LOCKWASHER AND WAVE SPRING	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND A.
CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894–91
CAP	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

6. FINISH

BODY AND CAP	GOLD PER MIL–G–45204, TYPE I, GRADE C, CLASS 1 (.000050 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (.000010 MIN.)
HEX NUTS(2), LOCKWASHER AND WAVE SPRING	PASSIVATE PER QQ–P–35C TYPE VI (6).
CONTACT	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR	N/A