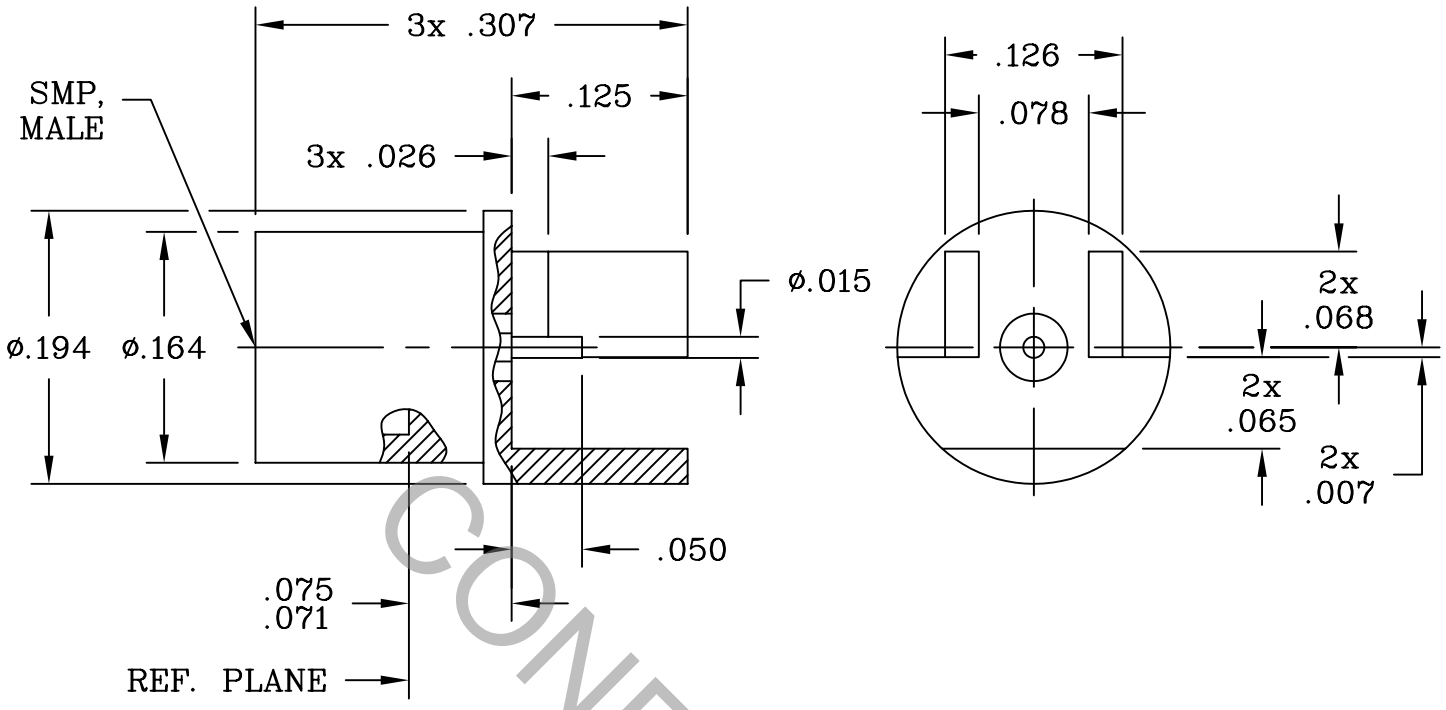
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-20.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) ❋	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.)	.05 x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ GARED TEST DATA

REV.	DCN NO.	DATE	APP.
AA	03-1180	2/11/03	DGG
AB	07-2208	12/13/07	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 G.E. DATE 02/11/03

APPROVED DATE

TITLE
SMP, MALE,
FULL DETENT,
EDGE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2120-0031-6415

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER PIN

MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	4.0 IN. OZ.

CONNECTOR FORCES

● ENGAGEMENT	15.0 LBS. MAX.
● DISENGAGEMENT	5.0 LBS. MIN.
CONNECTOR DURABILITY	1,000

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.) (190 VRMS)

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5. MATERIAL

CONNECTOR BODY AND SLEEVE	STAINLESS STEEL PER ASTM–A313, TYPE 303
CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY NO. UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91.

6. FINISH

CONNECTOR BODY AND CONTACT	GOLD PER ATSM B 488, TYPE 2, CODE C, CLASS 0.75 (.000030–.000055 THK.) OVER NICKEL PER QQ–N–290 (.000050–.000075 THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.).
SLEEVE	PASSIVATE PER QQ–P–35C, TYPE VI
INSULATOR	N/A