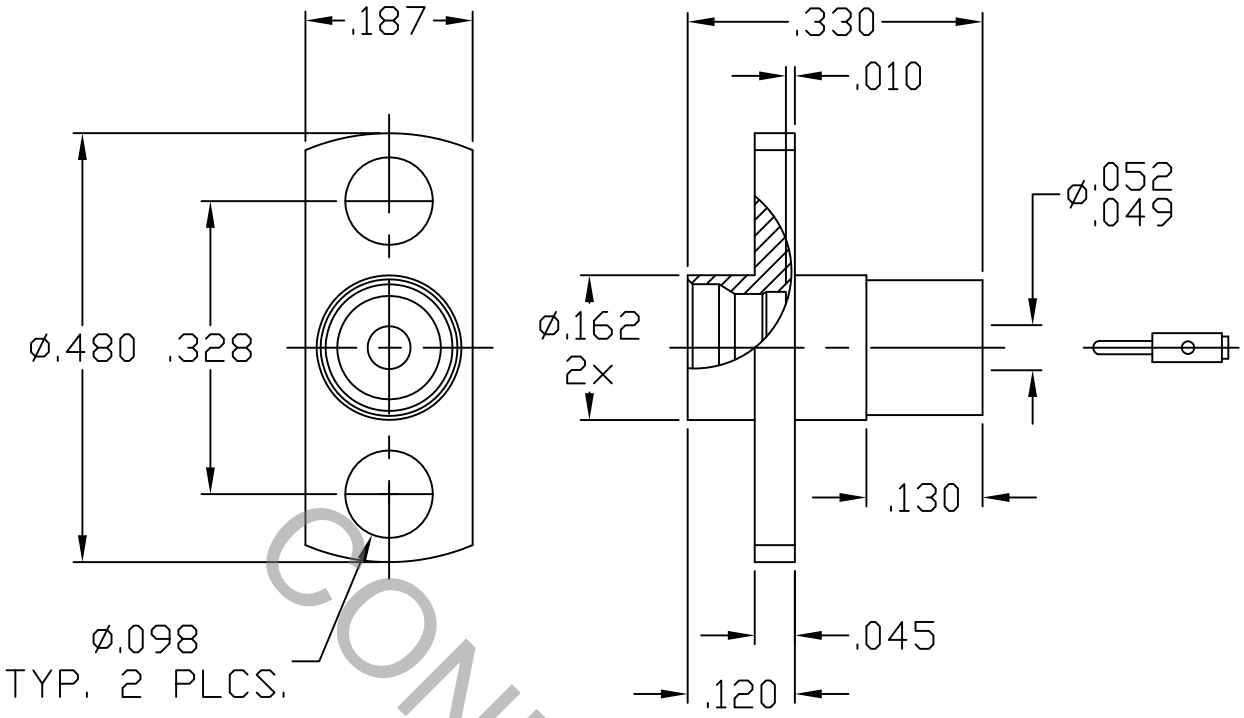
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A-326.3 (SMP, PLUG, LIMITED DETENT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	1.07 + .008 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	400
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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	09-1930	12/10/09	TS
AB	15-1453	3/26/15	DC

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 TS DATE 12/10/09

APPD DC DATE 12/10/09

TITLE
SMP MALE
2 HOLE MOUNT
ø.047 SEMI-RIGID
LIMITED DETENT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2172-4720-6432

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	N/A
• MIN. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCES	
• INSERTION (MAX. LBS.)	10.0
• WITHDRAWAL (MIN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	250

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.) (100 VRMS)

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5. MATERIAL

BODY & PRESS SLEEVE	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.
INSULATOR	TORLON 4203

6. FINISH

BODY	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN.).
PRESS SLEEVE	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000150 MIN.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN.).
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER AMS–2418, (.000010 MIN.)
INSULATORS	N/A