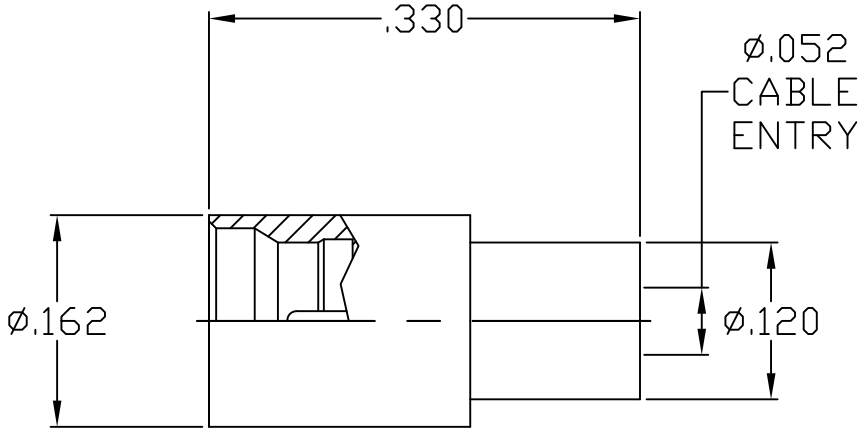
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	DC TO 18.0 GHz., 1.20:1 MAX. 18.0 TO 26.5 GHz., 1.35:1 MAX. 26.5 TO 40.0 GHz., 1.50:1 MAX.
INSERTION LOSS (dB MAX.) ❋	.12 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	167
RF LEAKAGE (MIN. dB DOWN)	3.0 GHz., −80 dB − FGHz 26.5 GHz., −65 dB − FGHz
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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	11-1319	4/5/11	TS
AB	11-1396	4/28/11	TS

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	TS	DATE	4/28/11
APPROVED	DC	DATE	4/28/11

TITLE
SMP MALE (LD)
DIRECT SOLDER TO
ø.047 SEMI-RIGID CABLE

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		2107-4725-6425

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — N/A
- MAX. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. POUNDS) — 10.0 LIMITED DETENT
- WITHDRAWAL (MIN. POUNDS) — 2.0 LIMITED DETENT

CONNECTOR DURABILITY (MIN. CYCLES) — 250 LIMITED DETENT

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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.) (125 VRMS)

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5. MATERIAL

BODY	STAINLESS STEEL PER ASTEM A 582, TYPE 303, COND. A.
CENTER CONTAC. ANTI–ROCK & EMI RING	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.

6. FINISH

BODY, ANTI–ROCK & EMI RING	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 (.000100 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.).
CENTER 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.).
INSULATOR	N/A