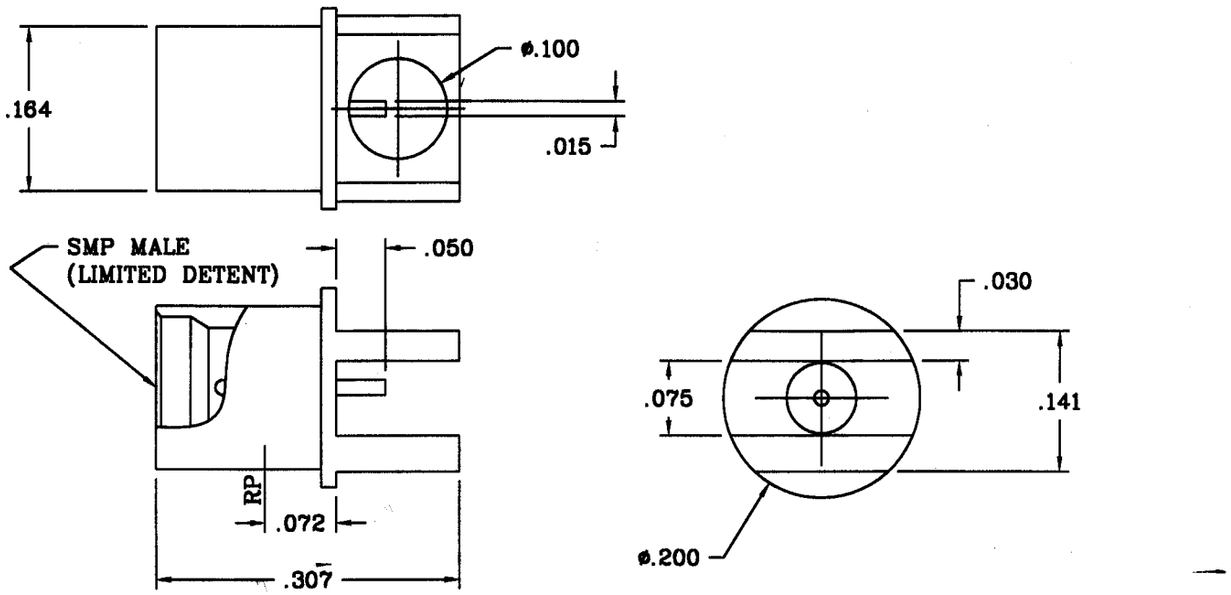
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21-7. AND / OR MIL-STD-348 fig 326.3

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 8.0 GHz.
VSWR (MAX.) *	1.07 + .008 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{FGHz.}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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

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REV.	DCN NO.	DATE	APP.
AA	03-1884		

DIMENSIONS ARE IN INCHES
TOLERANCES

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

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN BN DATE 7/8/03

APPROVED DATE

TITLE SMP, PLUG
(LIMITED DETENT)
STRAIGHT, EDGE MOUNT
P.C. CONNECTOR

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2127-0032-5400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 4.0 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. LBS.) — 10.0
- WITHDRAWAL (MIN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. MATING) — 500

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.) (125 VRMS)

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5. MATERIAL

CENTER CONTACT CONNECTOR BODY	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
SHROUD	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
INSULATOR	TEFLON PER ASTM D 4894-91

6. FINISH

CONNECTOR BODY	GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 OVER COPPER PER MIL-C-14550.
CENTER 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.)
SHROUD	PASSIVATE PER QQ-P-35C, TYPE IV
INSULATOR	N/A