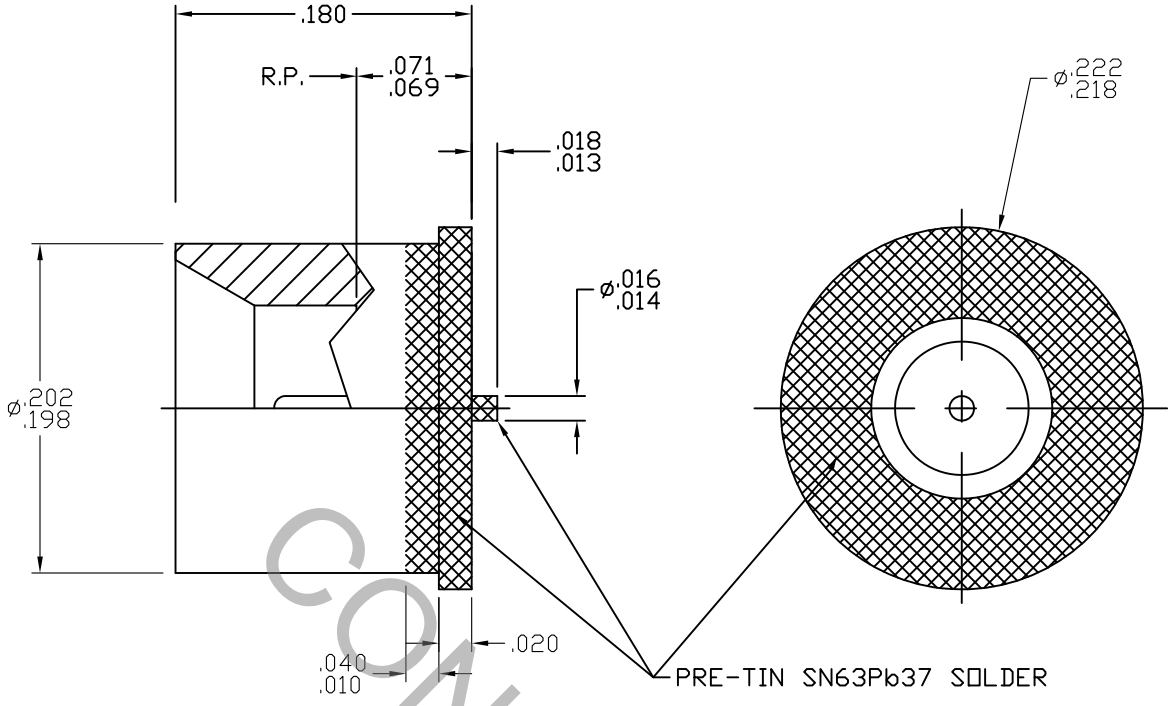
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.5 (SMP, MALE, CATCHERS MITT).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 39.0 GHz
VSWR (MAX.) ❋	1.02 + .003 x FGHz
INSERTION LOSS (dB MAX.) ❋	.045 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)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	14-1701	6/9/14	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 6/9/14

APPROVED DC DATE 6/9/14

TITLE SMP MALE
CATCHERS MITT, SMOOTH BORE
PCB SURFACE MOUNT
(HERMETICALLY SEALED)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2129-0431-5402

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

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

CONNECTOR AXIAL FORCES
- INSERTION (MAX. LBS.) — 2.0
- WITHDRAWAL (MIN. LBS.) — 0.05

CONNECTOR DURABILITY (MIN. CYCLES) — 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.) (125 VRMS)
HERMETICITY	1×10^{-8} cc/Sec.

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5. MATERIAL

BODY AND CENTER CONTACT	IRON–NICKEL ALLOY (KOVAR) PER SAE–AMS–I–23011,
GLASS	CORNING 7070

6. FINISH

BODY & CENTER CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.) (.000010 MIN. THK.)
GLASS	N/A