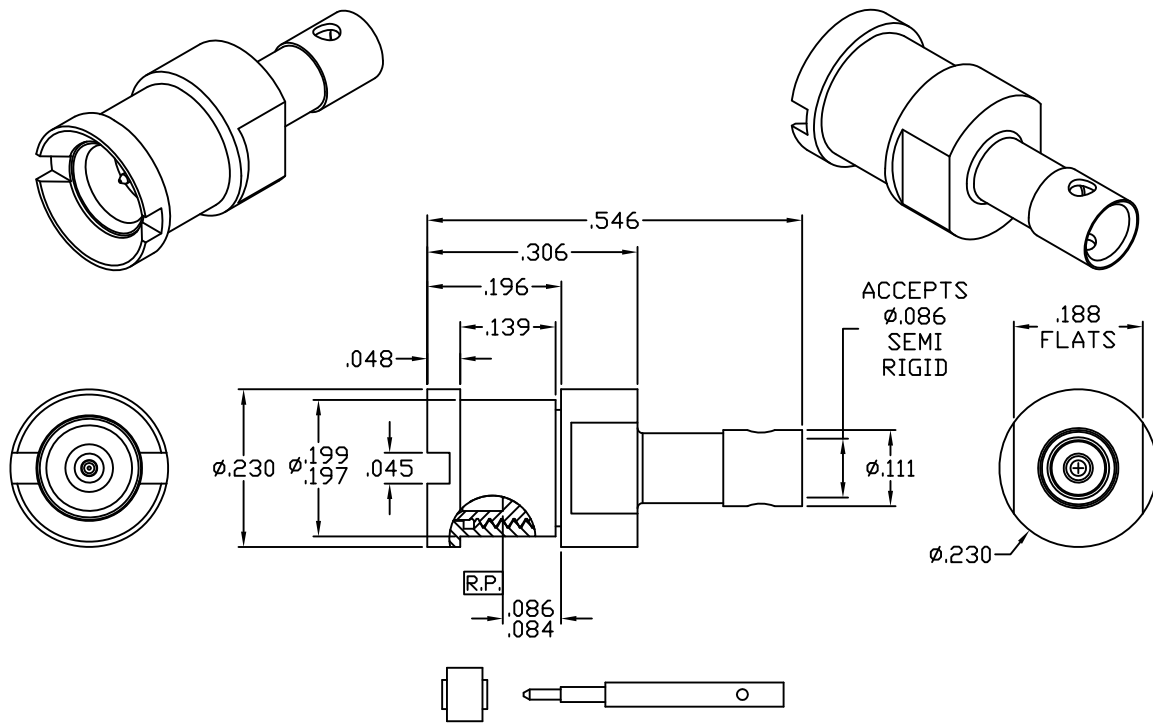


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) *	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	16 ⁷
RF LEAKAGE (MIN. dB DOWN)	-80 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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA 01835
AA	16-2418	11/14/16	DC	DECIMALS	FRACTIONAL	ANGULAR	
AB	16-2585	12/19/16	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
				DRAWN	DC	DATE	TITLE SMP MALE, CATCHERS MITT, BULKHEAD, DIRECT SOLDER TO Ø.085 SEMI-RIGID CABLE
				APPROVED	DC	DATE	
				CODE IDENT.		SHEET 1 OF 2	
				2J899			DWG. NO. 2119-8520-5400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE _____ N/A

MIN. RADIAL TORQUE _____ N/A

CONNECTOR AXIAL FORCES

● INSERTION (MAX. POUNDS) _____ 2.0

● WITHDRAWAL (MIN. POUNDS) _____ 0.5

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MOUNTING TORQUE _____ 6 - 8 IN. LBS.

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)

5. MATERIAL

SHROUD _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

BODY & CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER
ALLOY No. UNS-C17300, TEMPER TD04.

INSULATOR _____ ULTEM 1000 (POLYETHERIMIDE, UNFILLED)

6. FINISH

SHROUD _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

BODY & 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