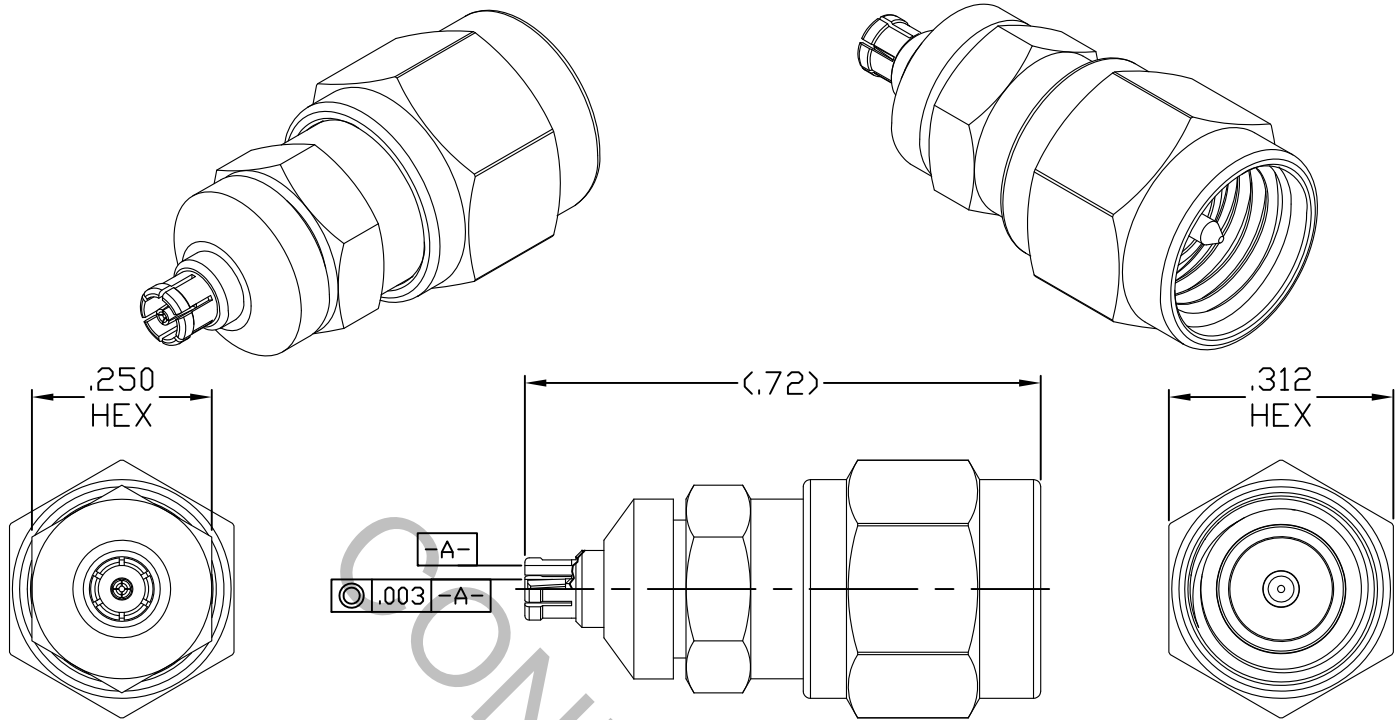


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 FIG. 310.1 & 328.1


2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz.
VSWR (MAX.) *	_____	1.05 + .004 x FGHz.
INSERTION LOSS (dB MAX.) *	_____	.04 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
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			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	04-1699	5/27/04	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1'0" X° X' ± 15"	TITLE SMPM JACK TO SMA PLUG ADAPTER
AB	17-2118	9/20/17	DC	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			
				DRAWN DC DATE 5/27/04			DWG. NO. 1100-3098-5450
				APPROVED DC DATE 5/27/04			
				CODE IDENT. 2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 1.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### SMA ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

### DYNAPAC MATING FORCES

- ENGAGE (MAX. LBS) \_\_\_\_\_ DETENT 4.5 LBS.; SMOOTHBORE 2.5 LBS.
- DISENGAGE (MIN. LBS.) \_\_\_\_\_ DETENT 6.5 LBS.; SMOOTHBORE 1.5 LBS.
- CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ FULL DETENT 100; SMOOTHBORE 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 )

## 5. MATERIAL

- SMPM BODY, CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B196/B 196M-03 COPPER ALLOY No. UNS-C17300, TEMPER TD04.
- SMA CONNECTOR BODY, COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303 , COND.A
- INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710, TYPE 1, GRADE 1, CLASS B.
- GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

## 6. FINISH

- SMPM BODY \_\_\_\_\_ 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 (.000100 MIN. THK.) OVER COPPER per AMS-2418 (.000040 MIN. THK.)
- SMA BODY, COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
- 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.)
- INSULATORS, RETAINING RING & GASKET \_\_\_\_\_ N/A