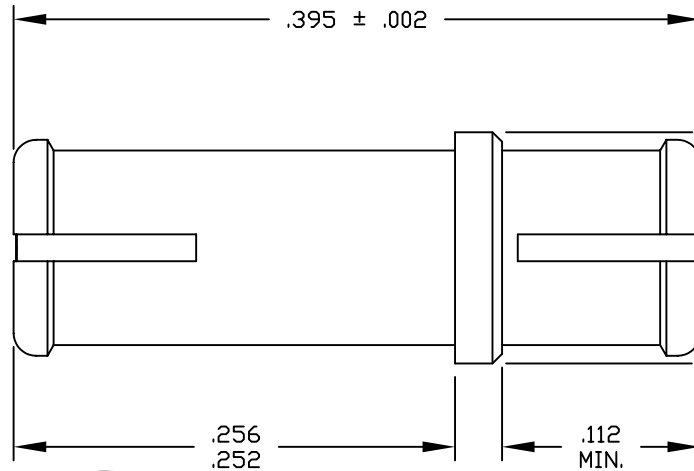


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSION PER MIL-STD 348, Fig. 326.1 (SMP, JACK)

## 2. ELECTRICAL

FREQUENCY RANGE (DC TO 23.0 GHz.) *	VSWR 1.10 MAX.
FREQUENCY RANGE (23.0 TO 26.5 GHz.) *	VSWR 1.15 MAX.
FREQUENCY RANGE (26.5 TO 40.0 GHz.) *	VSWR 1.40 MAX.
INSERTION LOSS (dB MAX.)	.10 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170 @ SEA LEVEL
(OVER FREQ. RANGE)	45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	80 dB (3 GHz. MAX.)
	65 dB (26.5 GHz. MAX.)
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO + 200 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500 @ SEA LEVEL
	125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			dynawave INCORPORATED HAVERHILL, MA. 01835
AA	07-1769	8/1/07	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X ° ± 1' 0" X ° X' ± 15"	
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			TITLE <b>SMP INTERCONNECT ADAPTER JACK TO JACK</b>
				DRAWN SS	DATE 8/1/07		
				APPROVED TS	DATE 8/1/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-2020-5420	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

● MIN. AXIAL FORCE	_____	1.5 LBS.
● MIN. RADIAL TORQUE	_____	N/A
RADIAL MISALIGNMENT	_____	.010 MIN.
AXIAL MISALIGNMENT	_____	.000/.010
CONNECTOR DURABILITY (MIN. MATING)	_____	A.) FULL DETENT _____ 100 B.) LIMITED DETENT _____ 500 C.) SMOOTH BORE _____ 1000

## 4. ENVIRONMENTAL

THERMAL SHOCK	_____	MIL-STD-202, METHOD 107, COND. B ( HIGH TEMP. +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, 1000 MEGOHMS MINIMUM WITHIN 5 MINUTES.
CORONA (70,000 FEET)	_____	190 VRMS
RF HIGH POTENTIAL MIN. VOLTS	_____	325 VRMS @ SEA LEVEL, FREQ. 5 MHZ.
VIBRATION, RANDOM	_____	MIL-STD 202, METHOD 214, TEST CONDITION F

## 5. MATERIAL

CONNECTOR BODY AND CENTER CONTACT	_____	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	_____	TEFLON PER ASTM D 1710.

## 6. FINISH

CONNECTOR BODY AND CENTER CONTACT	_____	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1 (.000050 MIN.) OVER NICKEL PER QQ-N-290 (.000050 MIN.)
INSULATOR	_____	N/A