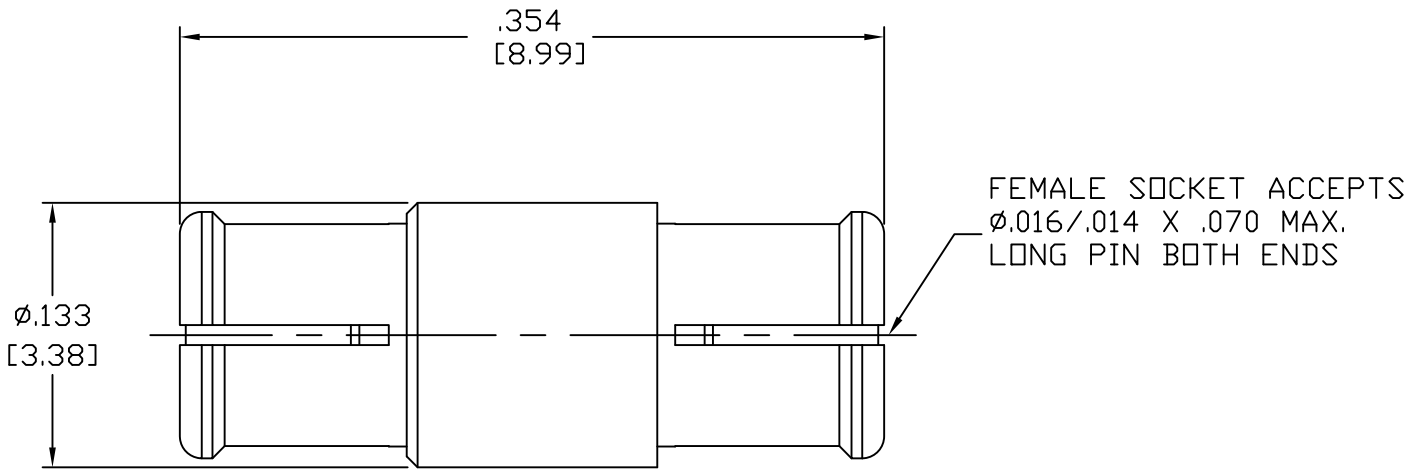
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 FiG. 326.1 (SMP FEMALE)

2. ELECTRICAL

FREQUENCY RANGE (DC TO 23.0 GHz.) *	VSWR 1.10:1 MAX.
FREQUENCY RANGE (23.0 TO 26.5 GHz.) *	VSWR 1.15:1 MAX.
FREQUENCY RANGE (26.5 TO 40.0 GHz.) *	VSWR 1.40:1 MAX.
INSERTION LOSS (dB MAX.)	.10 dB x $\sqrt{FGHz.}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS) (OVER FREQ. RANGE)	170 @ SEA LEVEL 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 + 165° 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

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	15-1591	4/17/15	TS
AB	18-2360	12/7/18	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ± 1/64
ANGULAR: X° ±1°0', X° X' ± 15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 4/17/15

APPROVED DC DATE 4/17/15

TITLE
SMP FEMALE TO SMP FEMALE ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-2020-5428

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- 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

FORCES TO ENGAGE AND DISENGAGE

ENGAGE

A.) FULL DETENT SHROUD — 15.0 LBS. MAX.

B.) LIMITED DETENT SHROUD — 10.0 LBS. MAX.

C.) SMOOTH BORE SHROUD — 2.0 LBS. MAX.

DISENGAGE

A.) FULL DETENT SHROUD — 5.0 LBS. MIN.

B.) LIMITED DETENT SHROUD — 2.0 LBS. MIN.

C.) SMOOTH BORE SHROUD — 0.5 LBS. MIN.

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/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY AND CENTER CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290 (.000100 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000040 MIN. THK.)
INSULATOR	N/A