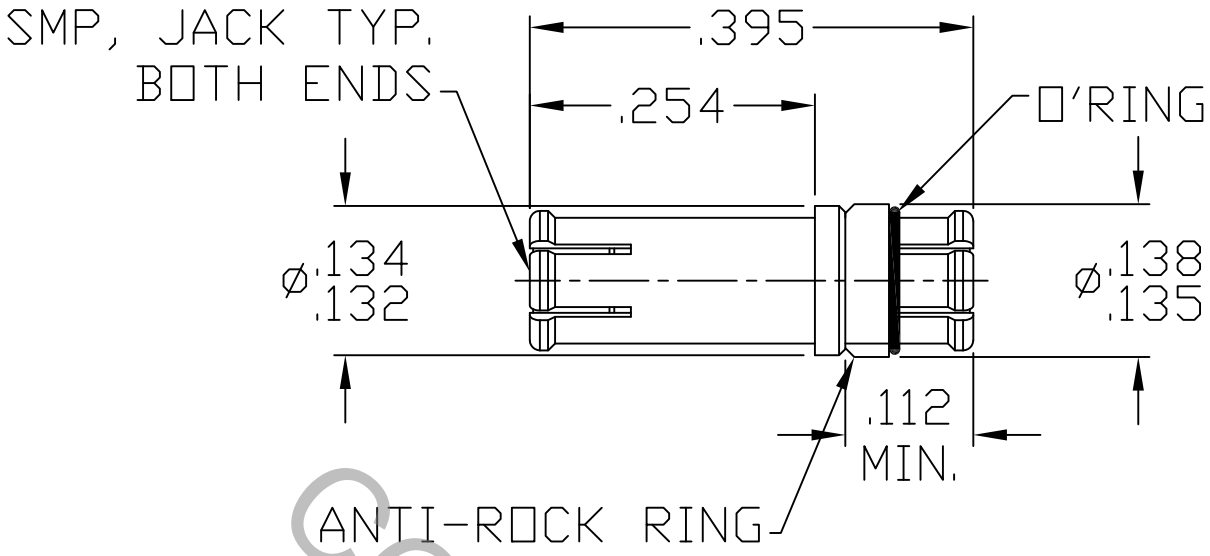
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER DSCC DWG. 94007 FIG. 3 (SMP SERIES)

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.) −85 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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	16-2052	8/30/16	TS
AB	16-2055	8/31/16	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X °±1°0' X ° X' ± 15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 8/30/16

APPROVED DC DATE 8/30/16

TITLE SMP
INTERCONNECT ADAPTER
JACK TO JACK W/O'RING

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-2020-5429

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

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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–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	ETHYLENE PROPYLENE PER ASTM D735–58/R810F

6. FINISH

CONNECTOR BODY AND CENTER CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050–.000100 THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000100 MIN. THK.) OVER COPPER PER AMS–2418, (.000040 MIN. THK.)
INSULATOR & O'RING	N/A