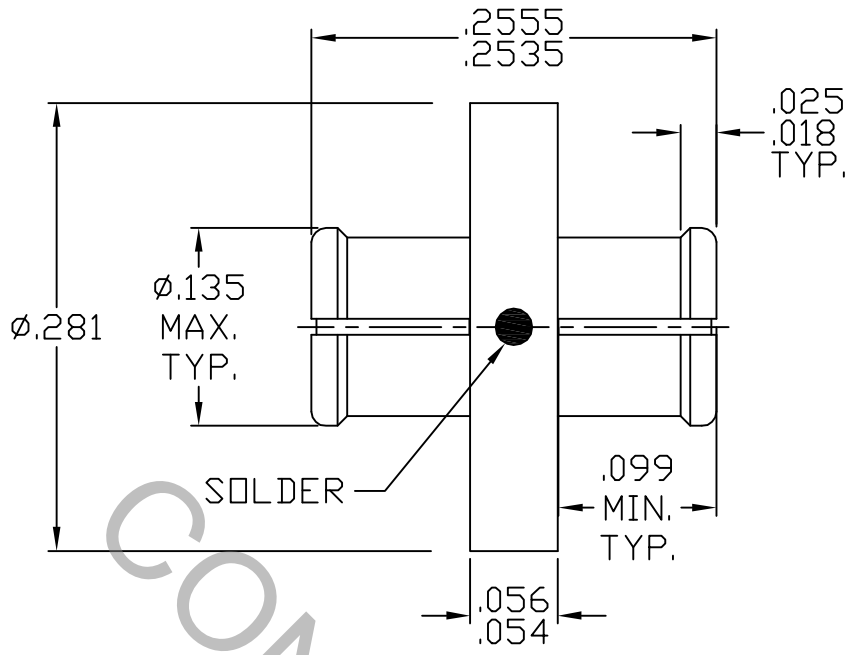
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD 348 Fig. 326.1 (SMP FEMALE)

2. ELECTRICAL

FREQUENCY RANGE	DC TO 2.0 GHz.
VSWR (MAX.)	1.40:1
INSERTION LOSS (dB MAX.)	.15 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.)
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO + 135° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500 @ SEA LEVEL 125 @ 70,000 FEET
SHUNT RESISTANCE	5 to 400 ohms.
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	N/A
• OUTER CONTACT (MAX. MILLIOHMS)	N/A

REV.	DCN NO.	DATE	APP.
AA	05-1886	9/1/05	DC
AB	05-1967	9/26/05	DGG

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 DC DATE 9/1/05

APPD. DC DATE 9/1/05

TITLE
SMP FEMALE ADAPTER
5 TO 400 OHM
SHUNT RESISTANCE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5400-2020-5450

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 — .05 LBS. MIN.

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4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (HIGH TEMP. +135°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.
RESISTOR	ALUMINA

6. FINISH

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