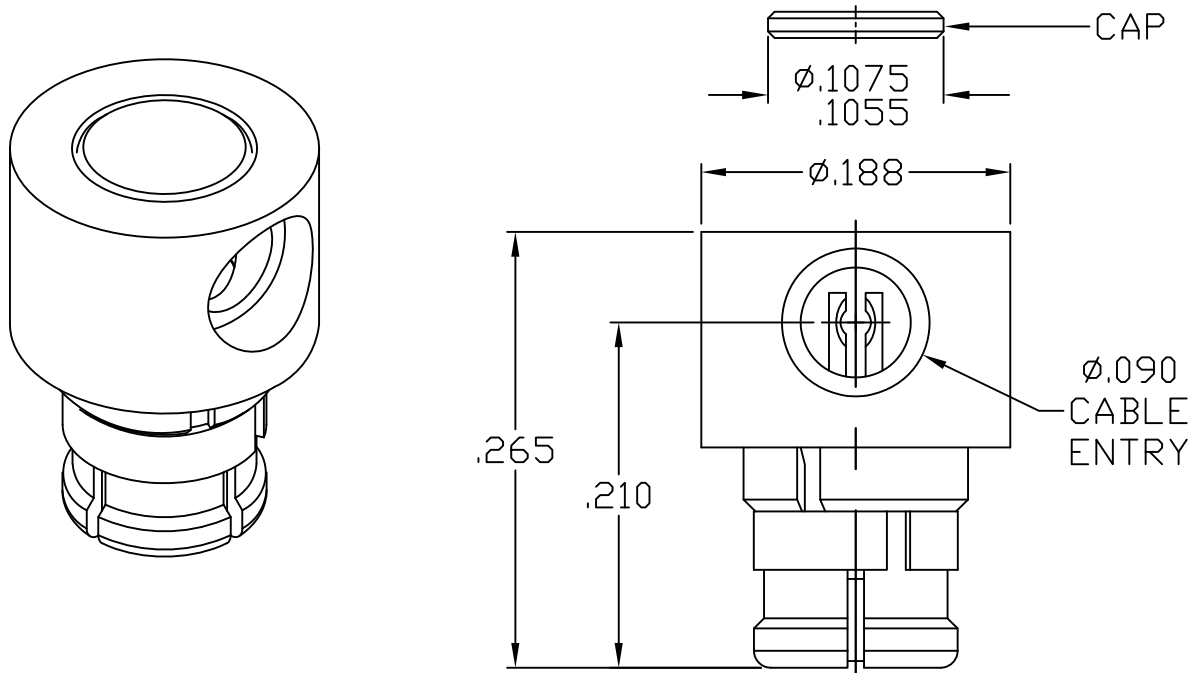


SPECIFICATION CONTROL DRAWING



DSCC PART NUMBER: 94008CG-5

1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1A (SMP JACK).

2. ELECTRICAL

FREQUENCY RANGE	DC TO 12.5 GHz
VSWR (DC TO 18.0 GHz)	1.10 + .015 x FGHz.
INSERTION LOSS (dB MAX.) *	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	-80 dB - FGHz. (3 GHz MAX.)
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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			
				DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1'0" X'X' ± 15'	
BA	02-1076	2/5/02	BN	DRAWN	TS	DATE	TITLE SMP, FEMALE RIGHT ANGLE, DIRECT SOLDER TO .085 S.R. CABLE
BB	05-1273	3/7/05	DC				
BC	11-1565	6/23/11	TS	APPROVED	DGG	DATE	
BD	19-2044	9/16/19	TS	CODE IDENT.			
				2J899		SHEET 1 OF 2	DWG. NO. 2001-8520-5425

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. RATING)

A.) FULL DETENT _____ 100

B.) LIMITED DETENT _____ 500

C.) SMOOTH BORE _____ 1000

FORCES TO ENGAGE/DISENGAGE

A.) FULL DETENT _____ 15.0 LBS MAX / 5.0 LBS MIN

B.) LIMITED DETENT _____ 10.0 LBS MAX / 2.0 LBS MIN

C.) SMOOTH BORE _____ 2.0 LBS MAX / 0.5 LBS MIN

CABLE RETENSION (SOLDER) _____ 50.0 LBS. MIN.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, 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.) (190 VRMS)

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, TYPE 1, GRADE 1, CLASS B.

CAP _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

CONNECTOR BODY, ANTI-ROCK RING, _____ GOLD PER ASTM-B-488, TYPE II, CODE C, CLASS 1.27
EMI RING AND CAP (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000150 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM-B-488, TYPE II, 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.)

INSULATOR _____ N/A