

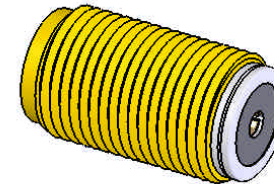
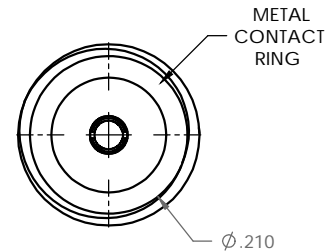
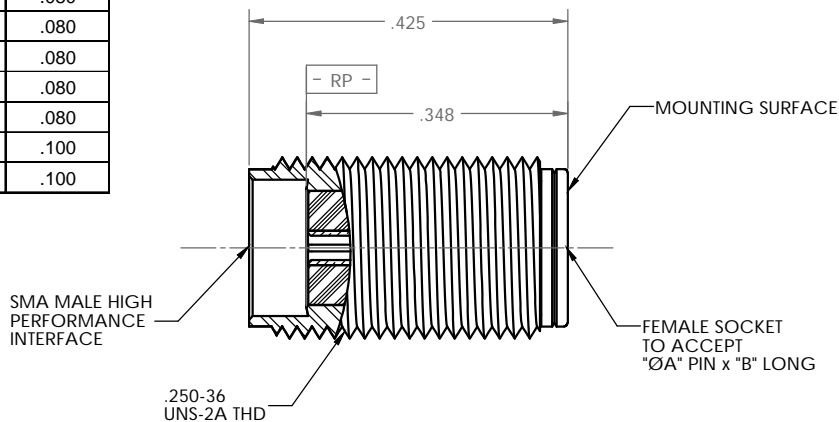
D

C

B

A

PART NO.	Ø A	B Max.
-1CC	.009±.001	.080
-1CCSF	.009±.001	.080
-2CC	.012±.001	.080
-2CCSF	.012±.001	.080
-3CC	.015±.001	.080
-3CCSF	.015±.001	.080
-4CC	.018±.001	.080
-4CCSF	.018±.001	.080
-5CC	.020±.001	.080
-5CCSF	.020±.001	.080
-6CC	.036±.001	.100
-6CCSF	.036±.001	.100



MATERIAL:	ELECTRICAL:	MECHANICAL:	ENVIRONMENTAL:
Body, Insert & Coupling Nut: 303 SST per ASTM A- 582 Center Conductor: BeCu Alloy per ASTM B- 196 Retaining Ring: BeCu alloy per ASTM B- 196 or ASTM B- 197. Insulator: PTFE Teflon per ASTM D- 1710 Bead: Ultem 1000 per ASTM 5205 Gasket: Silicone per A- A- 59588	Impedance: 50 Ohms Nom. Freq. Range: DC TO 27 GHz VSWR: 1.10:1 max to 18 GHz 1.15:1 max 18 to 27 GHz Insertion Loss: .035√ f (GHz) dB max. Working Voltage: 335 Vrms max @ Sea Level Dielectric Withstand Voltage: 1000 Vrms min. RF HiPot Voltage: 670 Vrms min. @ 5MHz Corona Level: 250 Vrms @ 70,000 ft Insulation Resistance: 5000 MegaOhms min. R.F. Leakage: - (100 - fGHz). Contact Resistance: Center Conductor: Before Environmental: 6.0 Milliohms After Environmental: 8.0 Milliohms Outer Contact: Before 2.0 Milliohms	Mating Characteristics: SMA high performance Force To Engage: Torque: 2 inch- pounds max. Connector Durability: 500 cycles min @ 12 cycles/minute max. Permeability: Less than 2.0 mu Center Contact Captivation: Axial Force from Interface: 6 pounds min. Rotational Captivation: Torque: 4 inch- ounces min. Coupling Proof Torque: 15 inch- pounds min. Coupling Mech. Retention: 60 pounds min.	Temp. Range: - 65°C to +165°C Thermal Shock: MIL- STD- 202, Method 107, Test Cond. B Moisture Resistance: MIL- STD- 202, Method 106. Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity Corrosion: MIL- STD- 202, Method 101, Test Cond. B Vibration: MIL- STD- 202, Method 204, Test Cond. D Shock: MIL- STD- 202, Method 213, Test Cond. I

FINISH:	APPLICABLE CARLISLE IT DOCUMENTS	TOLERANCES AND NOTES	MATERIAL	SIZE	SPECIFICATION	PROCUREMENT
Body, Insert & Coupling Nut (for CCSF): Passivate per ASTM A- 967. Body, Insert & Coupling Nut (for CC): Goldplate per ASTM B- 488, over nickel under plate per SAE AMS- QQ- N- 290. Center Conductor Goldplate per ASTM B- 488, over nickel under plate per SAE AMS- QQ- N- 290.	WORK STANDARD NA PROD INSTRUC NA ASSY INSTRUC NA NOTICE THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY CARLISLE INTERCONNECT TECHNOLOGIES & ALL DESIGN, MANUFACTURING, REPRODUCTION, USE & SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIED PURPOSE & THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON OR TO INCORPORATE IN OTHER PROJECTS ANY SPECIAL FEATURES PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY CARLISLE INTERCONNECT TECHNOLOGIES, LONG BEACH, CALIFORNIA 90815.	EXCEPT AS NOTED DIMENSIONS ARE IN INCHES. XX ± .005 ANGULAR ± 1/2° LINEAR .XXX ± .005 FRACTION ± 1/32 1. MACHINE FINISH: 63 RMS 2. BREAK ALL SHARP EDGES .003 MAX. 3. MACHINED FILLETS .005 MAX. 4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH. 5. MACHINED DIAMETERS CONCENTRIC WITHIN .001 I.D. 6. DIMENSIONS TO BE MET BEFORE PLATING. 7. CHAMFER ALL THREADS 45°. 8. THREADS PER H-28 9. REMOVE FRAYED EDGES ON TEFLON. 10. REMOVE ALL BURRS.	APPROVAL INITIALS DATE DRAWN BY HAU T 05.22.09 CHECKED BY PM 05.26.09 TEST ENGR DESIGN ENGR HT 12.13.10 MFG. ENGR	8:1 OL/ C 30990	SMA FEMALE, HIGH PERFORMANCE, THREAD-IN, FIELD REPLACEABLE	Interconnect Technologies Long Beach, CA 90815 SHEET 1 OF 1 REV. -

D

C

B

A