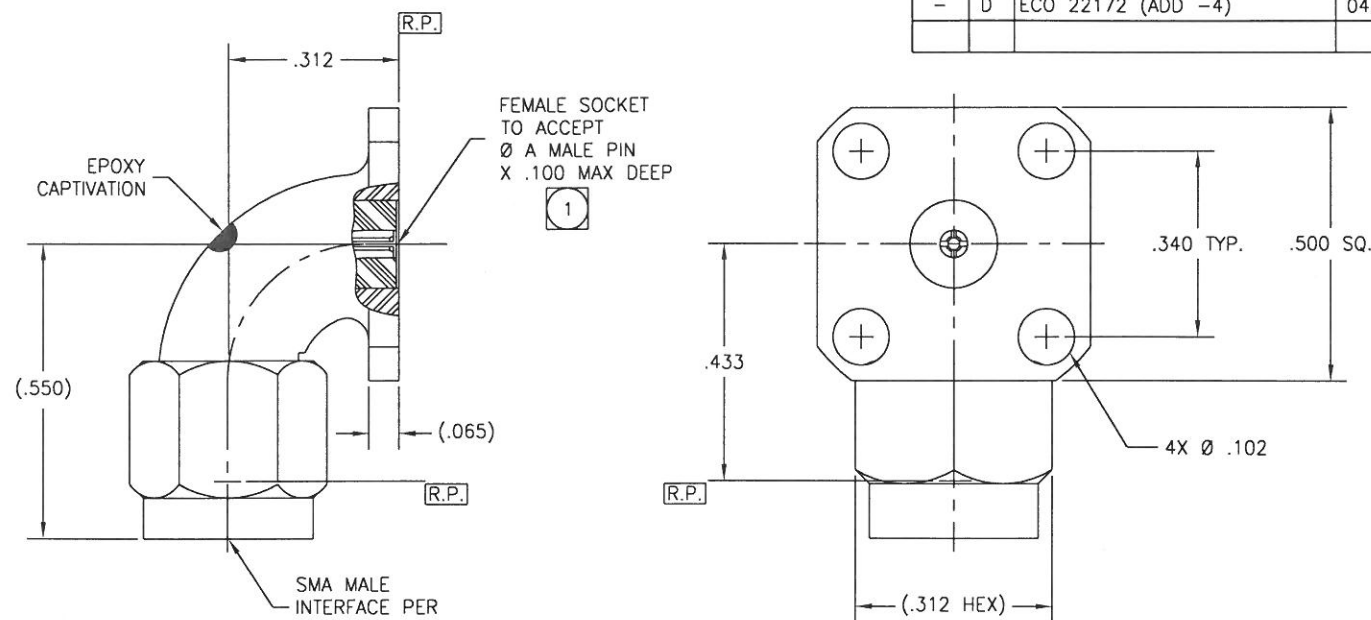


P/N	Ø A
-1CC	.036±.001
-1CCSF	.036±.001
-2CC	.020±.001
-2CCSF	.020±.001
-3CC	.010±.001
-3CCSF	.010±.001
-4CC	.012±.001
-4CCSF	.012±.001

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
-	C	ECO 18722 (REDRAW)	09.13.05	RC
-	D	ECO 22172 (ADD -4)	04.28.09	DKN



NOTE(S):

1. FOR -1CC & -1CCSF, FEMALE SOCKET HAS 2 SLOTS.

MATERIAL(S):

Body & 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
Dielectric:
PTFE per ASTM D-1710.
Gasket:
Silicone rubber per A-A-59588.
Epoxy:
Sigma VF type HV.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: $1.06 + .005 \times f(\text{GHz})$ max.
Insertion Loss: $.03 \sqrt{f(\text{GHz})}$ dB max
Working Voltage: 500 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1500 Vrms min.
R.F. HiPot Voltage: 1000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: $-(60 - f(\text{GHz}))$ dB min
Contact Resistance:
Initial:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 4.0 Milliohm max.
Outer Contact: NA.

MECHANICAL(S):

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-pounds max.
Longitudinal Force: NA.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Torque: 4 inch-ounces min.
Coupling Proof Torque: 15 inch-pounds min.
Coupling Mech. Retention: 60 pounds min.

ENVIRONMENTAL(S):

Temperature Range: -65°C to +125°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. A.
Moisture Resistance:
Mil-Std-202, Method 106, Insulation
resistance at least 200 MegOhms within
5 minutes after removal from humidity.
Corrosion:
Mil-Std-202, Method 101, Test Cond. B.
Vibration:
Mil-Std-202, Method 204, Test Cond. B.
Shock:
Mil-Std-202, Method 213, Test Cond. I.

FINISH(ES):

Body & Coupling Nut: (for SF & CCSF)
Passivated per ASTM A-967.
Body & Coupling Nut: (for Basic & CC)
Gold plate per ASTM B-488, over nickel under plate per AMS-QQ-N-290.
Center Conductor:
Gold plate per ASTM B-488, over nickel under plate per AMS-QQ-N-290.

APPLICABLE CARLISLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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TOLERANCES AND NOTES EXCEPT AS NOTED

LINEAR .004 .015 ANGULAR ± 1/2° 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 AXES WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
6. DRUMS/SCREWS TO BE WET BEFORE PLAYING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER AS-BUILT.
9. REMOVE FRATED EDGES ON TEFLO.
10. REMOVE ALL BURRS.

APPROVAL INITIALS		DATE	SIZE		SPECIFICATION		PROCUREMENT	
DESIGN BY	R.C.	03.25.02	C		30990		5902	
CHECKED BY			C		30990		5902	
TEST ENG			C		30990		5902	
QUALITY			C		30990		5902	
DESIGN ENG	DNG	06.17.09	C		30990		5902	
MFG ENG			C		30990		5902	

CARLISLE Interconnect Technologies
Long Beach, CA 90815
TITLE SMA MALE RADIUS RIGHT ANGLE 4 HOLE
FLANGE (.500 SQ.) MOUNT FIELD REPLACEABLE
SCALE 6:1 SUB-DIRECTORY/FILENAME OL_1
SHEET 1 of 1
CAGE CODE DRAWING NO. 5902
REV. D