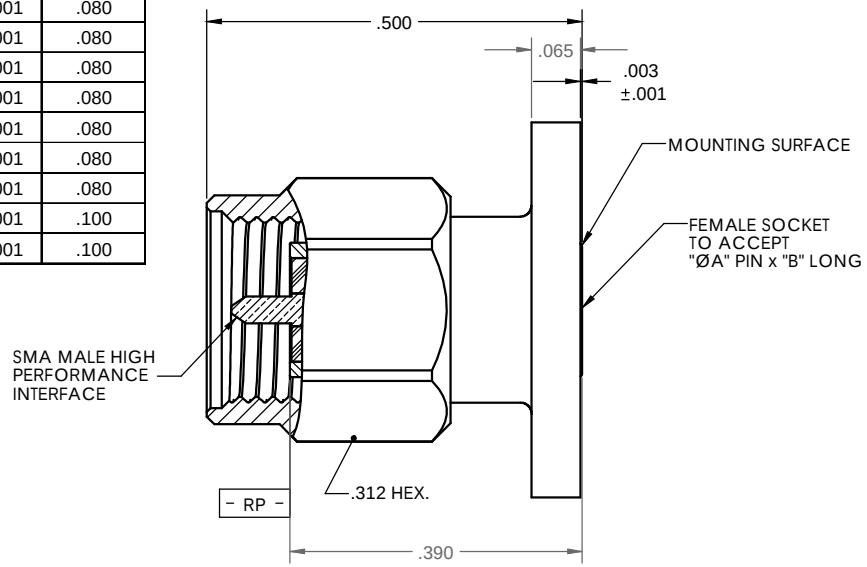
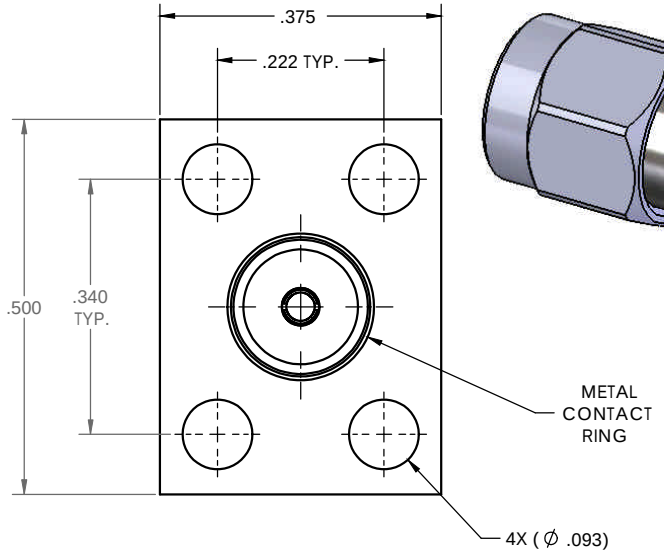
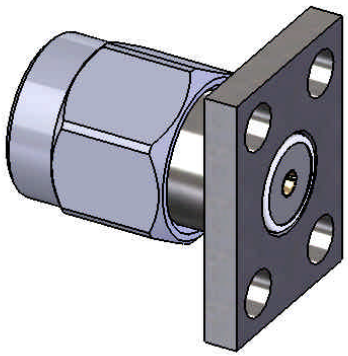
PART NO.	Ø A	B Max.
-1CC	.009±.001	.080
-1CCSF	.009±.001	.080
-2CC	.012±.001	.080
-2CCSF	.012±.001	.080
-3CC	.015±.001	.080
-3CCSF	.015±.001	.080
-4CC	.018±.001	.080
-4CCSF	.018±.001	.080
-5CC	.020±.001	.080
-5CCSF	.020±.001	.080
-6CC	.036±.001	.100
-6CCSF	.036±.001	.100

REVISIONS			
REV	DESCRIPTION	DATE	BY
-	INITIAL RELEASE	03.05.10	HT







MATERIAL:

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

ELECTRICAL:

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$\sqrt{f}$ (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 MiliOhms

MECHANICAL:

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.

ENVIRONMENTAL:

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:

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.

APPLICABLE CARLISLE IT DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	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 SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON 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.

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32
1. MACHINE FINISH: 63 $\sqrt{}$ 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 .002 T.I.R.
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.

-			-	-	-
MATERIAL			SIZE	SPECIFICATION	PROCUREMENT
APPROVAL	INITIALS	DATE			
DRAWN BY	HT	03.05.10			
CHECKED BY	PM	03.15.10			
TEST ENGR					
QUALITY					
DESIGN ENGR	HT	12.13.10			
MFG. ENGR					

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMA MALE, HIGH PERFORMANCE 4 HOLE FLANGE MOUNT (.375 X .500), FIELD REPLACEABLE

SCALE	SUB-DIRECTORY\FILE NAME	SHEET
8:1	_OL/	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	H5773	-

ENG-DWG REV. C