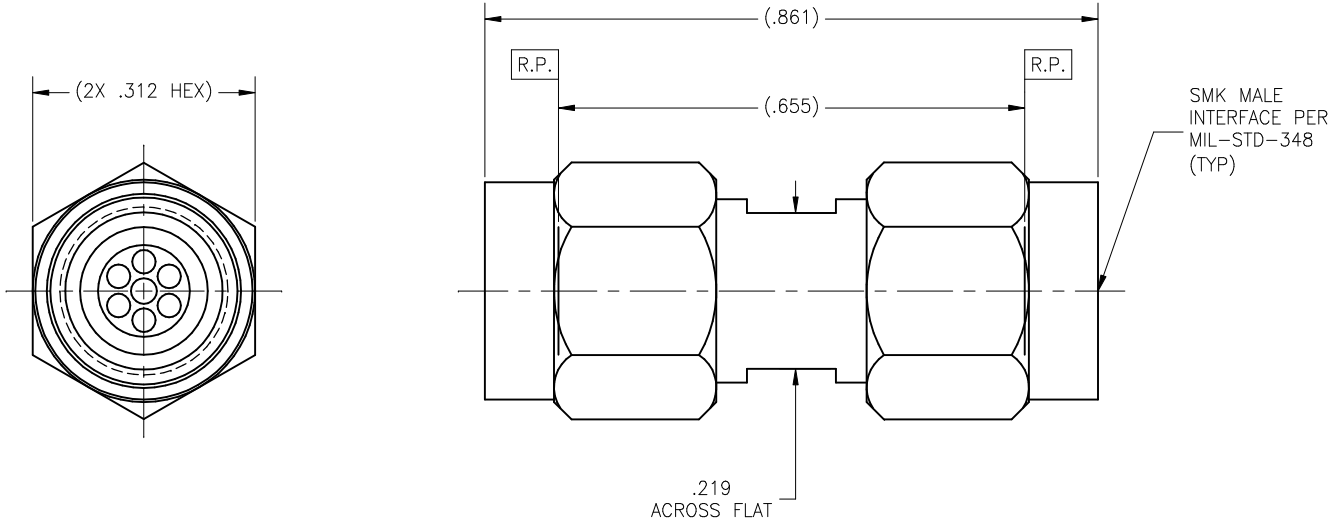
P/N
CC
CCSF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	A	ECO 21821	12.09.08	DKN



MATERIAL:

Body And Coupling Nut:
303 sst per ASTM A-582.
Center Conductor:
BeCu alloy per ASTM B-196.
Retaining Ring:
BeCu alloy per ASTM B-196.
Gasket:
Viton A per MIL-R-83248
Bead:
(High Performance Application).

ELECTRICAL:

Impedance: 50 Ohms nominal.
Freqancy Range: 0 to 40 GHz.
VSWR: 1.08 + .01 x f(GHz)
Insertion Loss: $.08\sqrt{f(GHz)}$ dB max.
Working Voltage: 500 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1500 Vrms.
R.F. HiPot Voltage: 1000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: -90 dB max to 40 GHz.
Contact Resistance:
Initial:
Center Contact: 5.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 7.0 Milliohm max.
Outer Contact: NA.

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-pounds max.
Longitudinal Force: NA.
Center Contact Retention:
Axial Force: 6 pounds min.
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:

Operating Temperature: -65° to +165°.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. B, except high temperature will be +165°C.
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. D.
Shock:
Mil-Std-202, Method 213, Test Cond. I.

FINISH:

Body And Coupling Nut:
(for CCSF's) Passivate per ASTM A-967.
(for CC's) 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

TOLERANCES AND NOTES EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 ANGULAR ± 1/2°
.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 .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.

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MATERIAL	SIZE	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	R.C.	03.12.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNg	12.09.08
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMK MALE TO SMK MALE STRAIGHT ADAPTER

SCALE 8:1 | SUB-DIRECTORY\FILENAME OL_\ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. 223 | REV. A

ENG-DWG REV. C