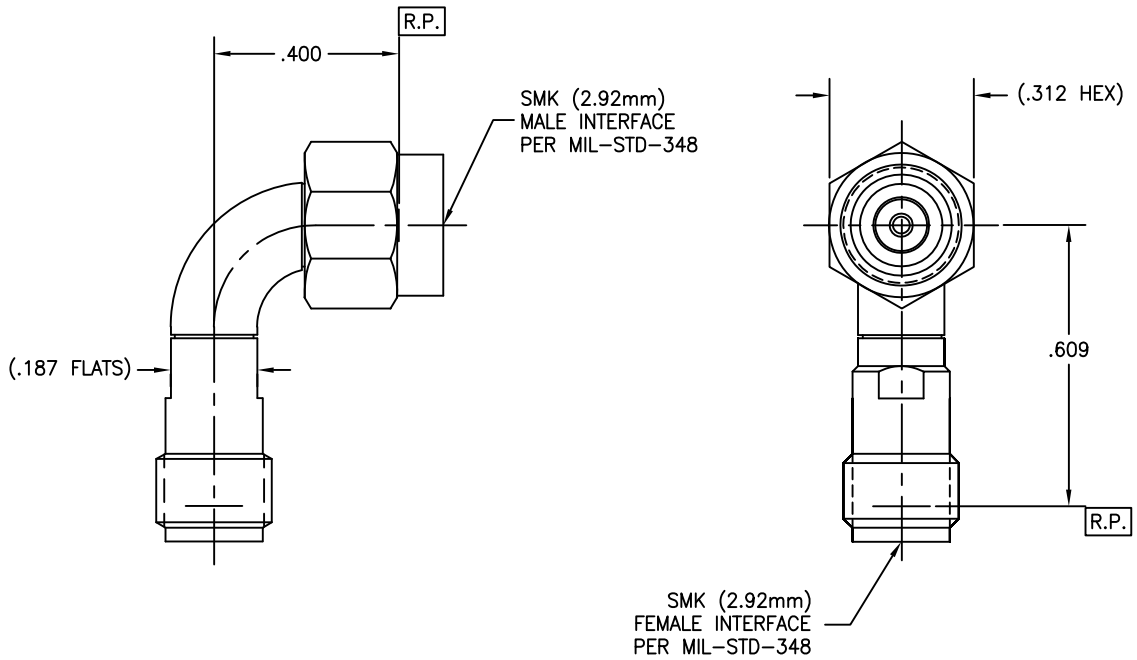
REVISIONS			
REV	DESCRIPTION	DATE	BY
–	INITIAL RELEASE	03.27.14	DKN



MATERIAL(S):

Body And Coupling Nut:
303 sst per ASTM A-582.
Right Angle Body:
304 sst per MIL-T-8504
or AMS 5567
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:
Viton A per MIL-R-83248
Bead:
(High Performance Application).
Epoxy:
Sigma Vary Flex type HV.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 40.0 GHz.
VSWR: 1.50:1 Max to 40 GHz.
Insertion Loss: .50 dB max to 40 GHz.
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: -90 dB min from 2 to 3 GHz
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 Retention:
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: -55°C to +125°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. B.
Temperature Cycle:
Mil-Std-202, Method 102, Test Cond. 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(ES):

Body, R/A Body And Coupling Nut:
Passivated per ASTM A-967 or SAE-AMS 2700.

Center Conductor:
Gold plate per ASTM B-488, Type II, Code C or D, Class 1.25, over nickel under plate per SAE-AMS-QQ-N-290, Class 1, .000050 inch thick minimum.

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 .XXX ±.005 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 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	SPECIFICATION	PROCUREMENT

	APPROVAL INITIALS	DATE
DRAWN BY	DKN	03.27.14
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	Y.L.	03.31.14
MFG ENGG		
ECO APPRV		

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: SMK(2.92mm) MALE TO SMK(2.9mm) FEMALE RADIUS RIGHT ANGLE ADAPTER

SCALE	DIRECTORY\SUB-DIRECTORY	SHEET	OF
5:1	_OUTLINE\	1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	221-0-1CCSF	–

ENG-DWG REV. E