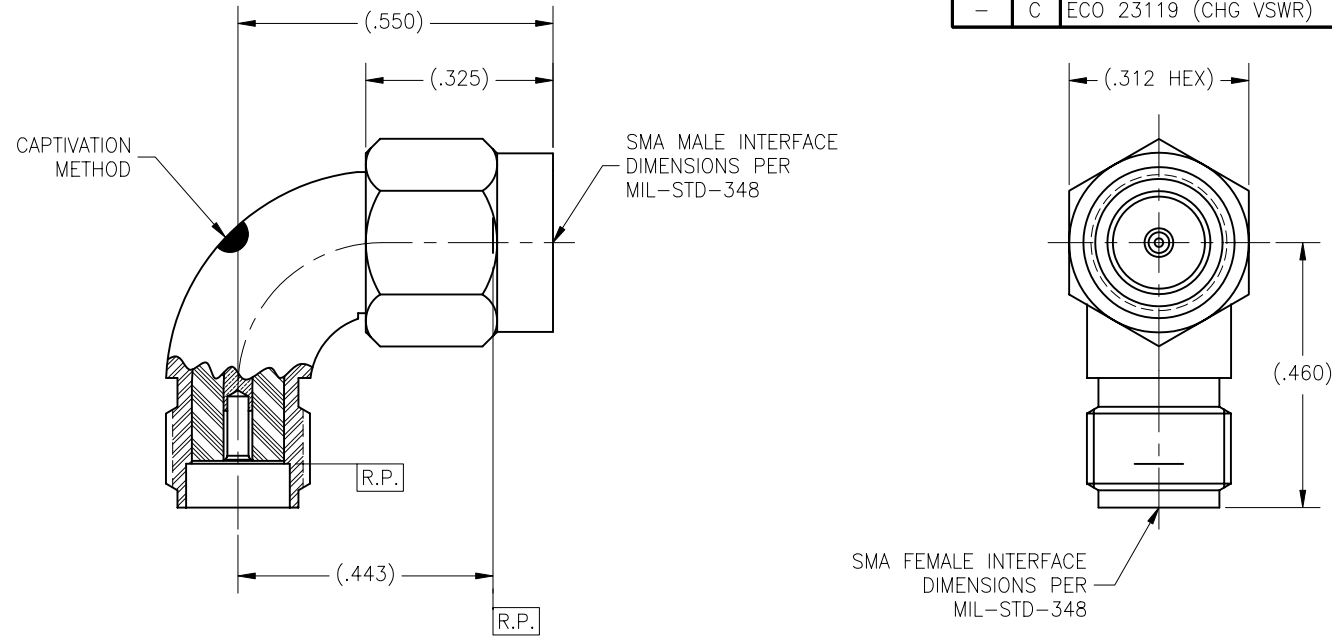


P/N	CAPTIVATION METHOD
BASIC	NONE
CC	EPOXY ONLY
SF	NONE
CCSF	EPOXY ONLY
CCCE	EPOXY WITH CONDUCTIVE
CCCESF	EPOXY WITH CONDUCTIVE

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
-	A	ECO 19541	09.01.06	DKN
-	B	ECO 21842	12.12.08	DKN
-	C	ECO 23119 (CHG VSWR)	05.05.10	YP



MATERIAL(S):
 Body:
 304 sst per AMS 5567.
 Coupling Nut:
 303 sst per ASTM A-582.
 Center Conductor:
 BeCu alloy per ASTM B-196.
 Retaining Ring:
 BeCu alloy per ASTM B-196
 Dielectric:
 PTFE per ASTM D-1710.
 Gasket:
 Silicone rubber per A-A-59588.
 Epoxy:
 Sigma vary flex type HV.
 Conductive Epoxy:
 Eccobond 56C.

ELECTRICAL(S):
 Impedance: 50 Ohms nominal.
 Frequency Range: DC to 18.0 GHz.
 VSWR: 1.15 + .006 x f(GHz) for BASIC & SF.
 1.25:1 max. for CC, CCSF, CCCE & CCCESF.
 Insertion Loss: .20 dB max @ 18GHz.
 Working Voltage: 335 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-fGHz) dB min for BASIC & SF
 -(60-fGHz) dB min for CC & CCCE
 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.
 Coupling Proof Torque: 15 inch-pounds min.
 Coupling Mech. Retention: 60 pounds min.

ENVIRONMENTAL(S):
 Temperature Range: -65°C to +165°C.
 Thermal Shock:
 Mil-Std-202, Method 107, 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 And Coupling Nut:
 (for SF, CCSF, CCCESF): Passivate per ASTM A-967.
 (for BASIC, CC, CCCE): 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 DIMENSIONS ARE IN INCHES.
 LINEAR .XXX ±.015 ANGULAR ± 1/2° FRACTION ± 1/32

- MACHINE FINISH: 63 RMS
- BREAK ALL SHARP EDGES .003 MAX.
- MACHINED FILLETS: .005 MAX.
- MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
- MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
- DIMENSIONS TO BE MET BEFORE PLATING.
- CHAMFER ALL THREADS 45°.
- THREADS PER H-28
- REMOVE FRAMED EDGES ON TEFLON.
- REMOVE ALL BURRS.

APPROVAL INITIALS		DATE	MATERIAL	SIZE	SPECIFICATION	PROCUREMENT
DRAWN BY	AGS	02.12.02				
CHECKED BY						
DESIGN ENGG	H.N.	06.21.10				
MFG ENGG						

CARLISLE Interconnect Technologies
 Long Beach, CA 90815

TITLE: SMA MALE TO SMA FEMALE RADIUS RIGHT ANGLE, ADAPTER

SCALE: 5:1 SUB-DIRECTORY/FILENAME: OL_\ SHEET 1 of 1

SIZE: C 30990 DRAWING NO. 5490 REV. C