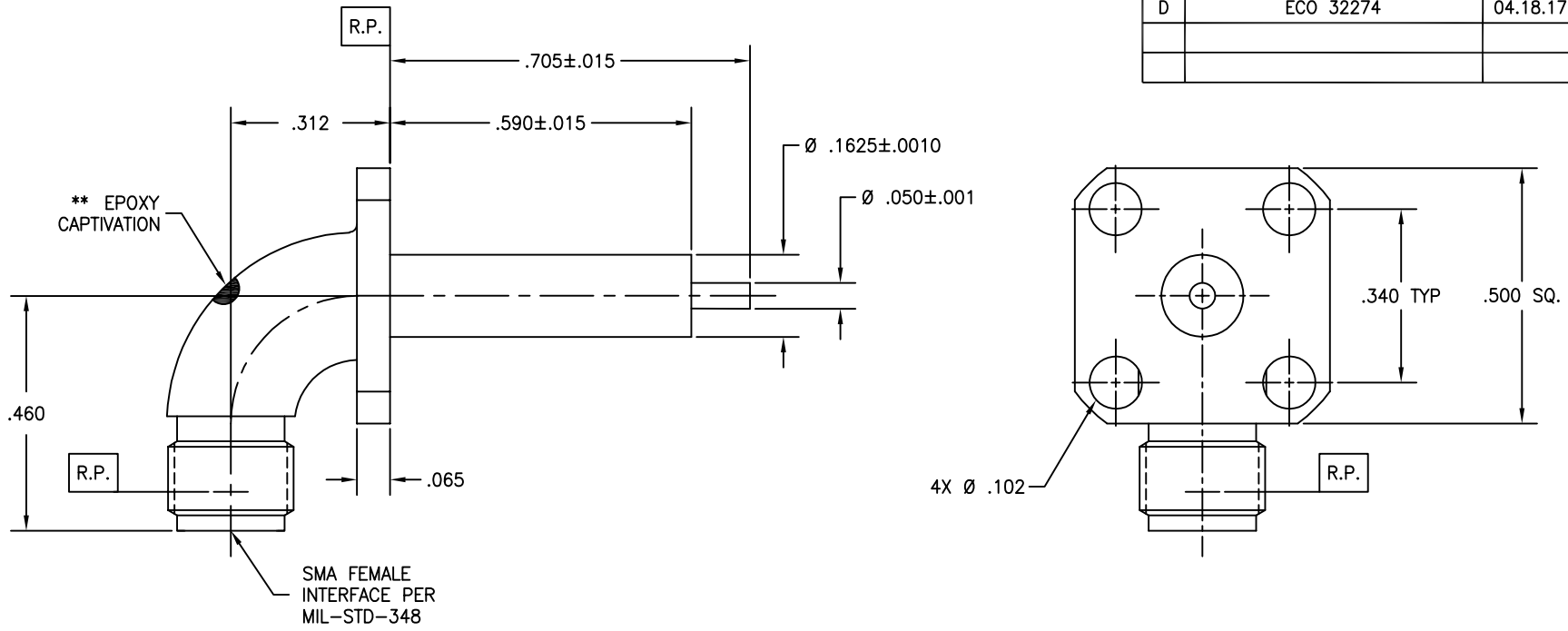
P/N
BASIC
SF
CC
CCSF
CCCE
CCCE
CCCESF

REVISIONS			
REV	DESCRIPTION	DATE	BY
D	ECO 32274	04.18.17	P.MAO



** NOT APPLICABLE TO BASIC & SF

MATERIAL(S):

Body:
304L sst per AMS-5511.
Center Conductor:
BeCu alloy per ASTM B-196.
Dielectric:
PTFE per ASTM D-1710.
Epoxy: (for CC, CCSF, CCCE & CCCESF)
Sigma VF Type HV.
Conductive Epoxy: (for CCCE & CCCESF)
Eccobond 56C.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.08 + .005 (fGHz).
Insertion Loss: $.07\sqrt{f}$ GHz.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,500 Vrms min.
R.F. HiPot Voltage: 1,000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: -(60 - fGHz) dB min. for CC & CCSF.
-(65 - fGHz) dB min. for CCCE & CCCESF.
-(90 - fGHz) dB min. for BASIC & SF.
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:

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 lbs min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
*Center Contact Captivation:
Axial Force: 6 lbs min.
Radial Torque: N/A
Permeability: Less than 2.0 mu.

* Applicable to CC, CCSF, CCCE & CCCESF

ENVIRONMENTAL:

Temperature Range: -65°C to +125°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. B.
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: (for SF, CCSF & CCCESF)
Passivated per ASTM A-967.
Body: (for Basic, CC & CCCE)
Gold plate per ASTM B-488, over nickel under plate per SAE-AMS-QQ-N-290.
Center Conductor:
Gold plate per ASTM B-488, over nickel under plate per SAE-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: .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 Ø .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	12.15.06
CHECKED BY	P.MAO	04.18.17
TEST ENGG		
QUALITY		
DESIGN ENGG	DNG	08/19/11
MFG ENGG		
ECO APPRV	P.MAO	04.18.17

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS R/A 4 HOLE FLANGE MOUNT TO STRAIGHT TERMINATION

SCALE	DIRECTORY\SUB-DIRECTORY	SHEET
6:1	OL_\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5450	D

ENG-DWG REV. E