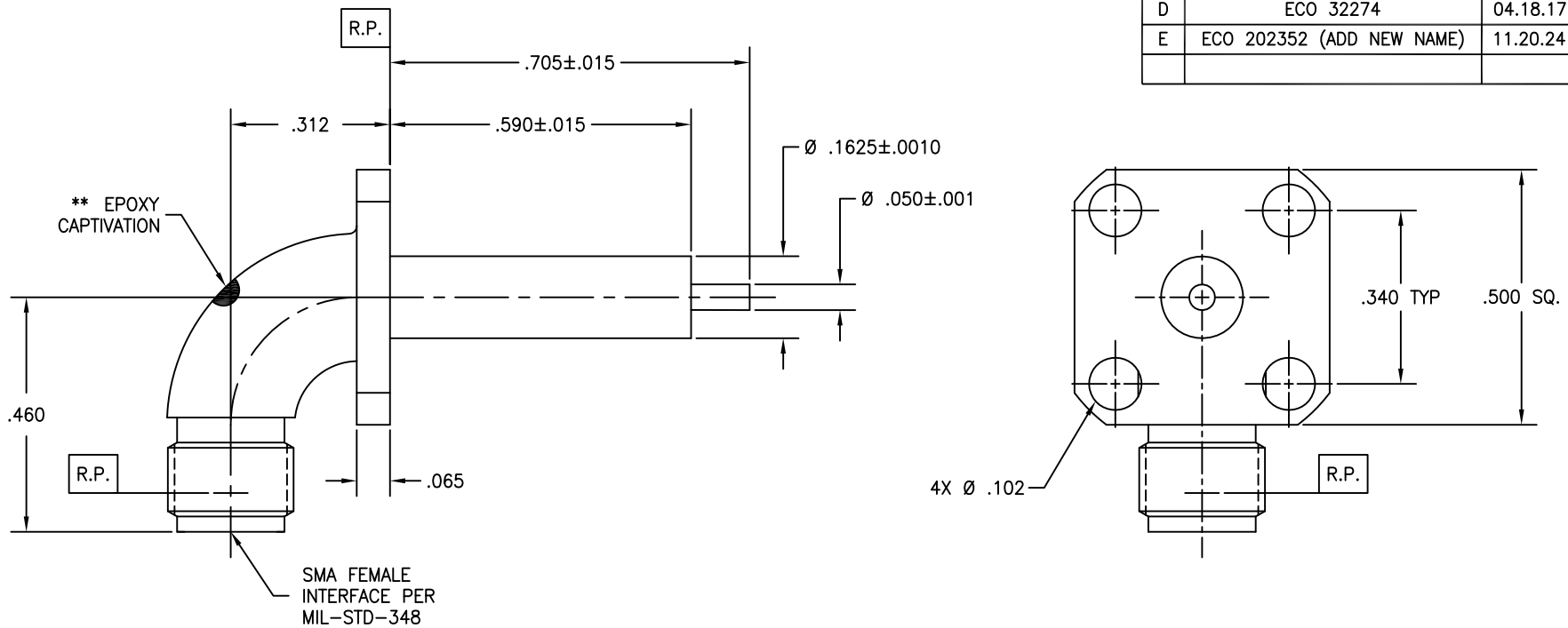
P/N
BASIC
SF
CC
CCSF
CCCE
CCCESF

REVISIONS			
REV	DESCRIPTION	DATE	BY
D	ECO 32274	04.18.17	P.MAO
E	ECO 202352 (ADD NEW NAME)	11.20.24	DKN



** 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:

Temper. Range: −65°C to +125°C (All Captivated)
−65°C to +165°C (Basic & SF)
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, Type II, Code C, Class .25;
Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.
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.

APPLICABLE Amphenol CDI DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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TOLERANCES AND NOTES EXCEPT AS NOTED

INTERPRET DRAWING PER ASME Y14.5-2018

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	Amphenol CDI	12900 Alondra Blvd. Cerritos, CA 90703	
DRAWN BY	DKN	12.15.06			
CHECKED BY	P.MAO	04.18.17	TITLE SMA FEMALE RADIUS R/A 4 HOLE FLANGE MOUNT TO STRAIGHT TERMINATION		
TEST ENGG					
QUALITY					
DESIGN ENGG	DNg	08/19/11	SCALE 6:1	DIRECTORY\SUB-DIRECTORY _OUTLINE\	SHEET 1 OF 1
MFG ENGG					
ECO APPRV	DNg	11.20.24	SIZE C	CAGE CODE 30990	DRAWING NO. 5450 REV. E

ENG-DWG REV. H