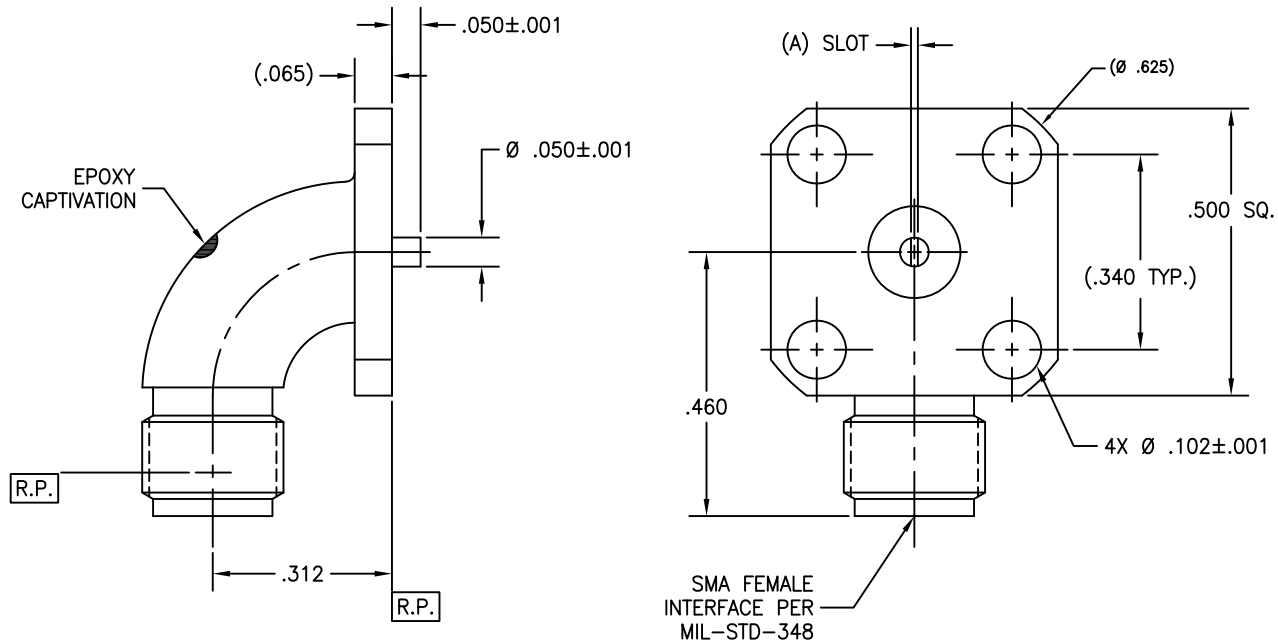
P/N	(A) SLOT
−1	.012/.015
−1CC	.012/.015
−1CCCE	.012/.015
−1CCCESF	.012/.015
−1CCSF	.012/.015
−1SF	.012/.015
−2	.018/.021
−2CC	.018/.021
−2CCCE	.018/.021
−2CCCESF	.018/.021
−2CCSF	.018/.021
−2SF	.018/.021
−3	.028/.031
−3CC	.028/.031
−3CCCE	.028/.031
−3CCCESF	.028/.031
−3CCSF	.028/.031
−3SF	.028/.031
−4	.036/.039
−4CC	.036/.039
−4CCCE	.036/.039
−4CCCESF	.036/.039
−4CCSF	.036/.039
−4SF	.036/.039

REVISIONS			
REV	DESCRIPTION	DATE	BY
B	ECO 14628	06.19.02	ATV
C	ECO 20619	10.08.07	DKN
D	ECO 202352 (ADD NEW NAME)	11.21.24	DKN



MATERIAL(S):

Body:
304 sst per SAE−AMS−5511.
Center Conductor:
BeCu alloy per ASTM B−196.
Dielectric:
PTFE per ASTM D−1710.
Epoxy:
(for CC's): Sigma VF Type HV.
(for CE's): Ablebond 16−1

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18 GHz.
VSWR: 1.06 + .005 x f(GHz).
Insertion Loss: .10 dB max @ 6GHz.
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 dB min. from 2−3 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.
Center Contact Retention Force:
Axial Force: 6 pounds min.
Center Contact Captivation:
Axial Force: 6 pounds max.
Radial Torque: 4 inch−ounces max.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.

ENVIRONMENTAL(S):

Temperature Range: −65°C to +125°C (all captivated).
−65°C to +165°C (Basic & SF).
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: (for SF's)
Passivate per ASTM A−967.
Body: (for Basic & CC's)
Gold plate per ASTM B−488, Type II, Code C, Class 0.25;
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

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.

MATERIAL			SPECIFICATION	PROCUREMENT
−			−	−

APPROVAL INITIALS		DATE
DRAWN BY	R.C.	03.27.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	11.07.07
MFG ENGG		
ECO APPRV	DNg	11.20.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS RIGHT ANGLE 4 HOLE FLANGE (.500 SQ) MOUNT TO VER. SLOT TERMINATION

SCALE	DIRECTORY\SUB−DIRECTORY	SHEET
6:1	_OUTLINE\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5581	D

ENG−DWG REV. H