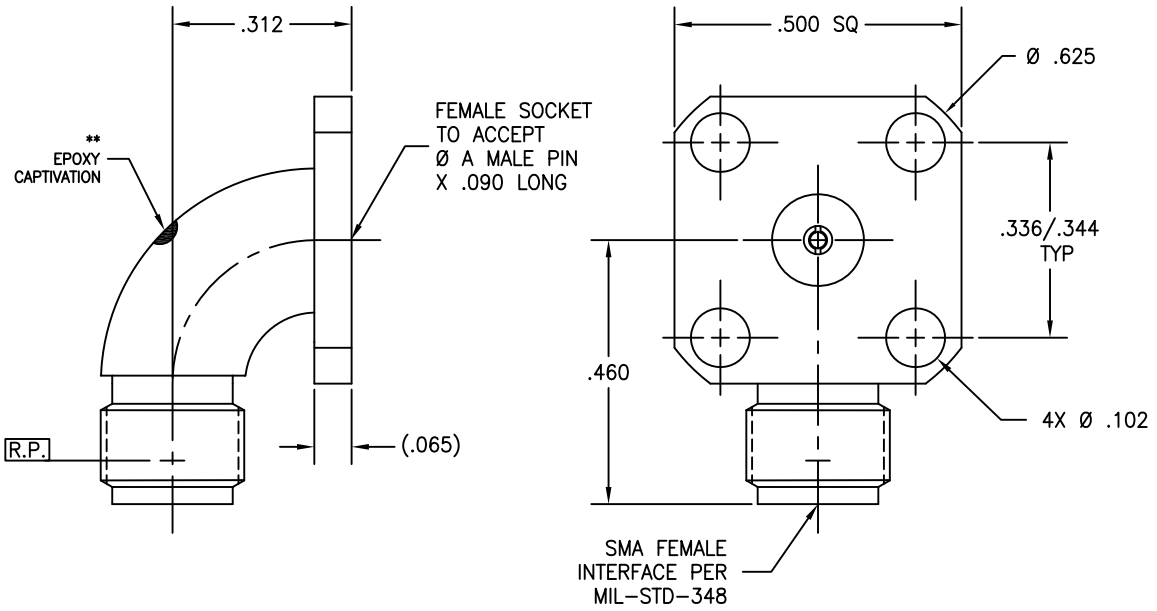
| P/N | Ø A ±.001 |
|---|---|
| −1 | .036 |
| −1CC | .036 |
| −1CCCE | .036 |
| −1CCCESF | .036 |
| −1CCSF | .036 |
| −1SF | .036 |
| −2 | .020 |
| −2CC | .020 |
| −2CCCE | .020 |
| −2CCCESF | .020 |
| −2CCSF | .020 |
| −2SF | .020 |
| −3 | .010 |
| −3CC | .010 |
| −3CCCE | .010 |
| −3CCCESF | .010 |
| −3CCSF | .010 |
| −3SF | .010 |

| P/N | Ø A ±.001 |
|---|---|
| −4 | .012 |
| −4CC | .012 |
| −4CCCE | .012 |
| −4CCCESF | .012 |
| −4CCSF | .012 |
| −4SF | .012 |
| −5 | .015 |
| −5CC | .015 |
| −5CCCE | .015 |
| −5CCCESF | .015 |
| −5CCSF | .015 |
| −5SF | .015 |
| −6 | .018 |
| −6CC | .018 |
| −6CCCE | .018 |
| −6CCCESF | .018 |
| −6CCSF | .018 |
| −6SF | .018 |

| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | BY |
| D | ECO 27922 | 07.15.14 | DKN |
| E | ECO 34097 | 09.06.18 | DT |
| F | ECO 202352 (ADD NEW NAME) | 11.21.24 | DKN |




** NOT APPLICABLE TO BASIC AND SF

**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.
Epoxy: (for CCCE's)
Eccobond 56C.

**ELECTRICAL(S):**

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18 GHz.
Typical VSWR: 1.06 + .010 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.

**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 Captivation:
Axial Force: 6 pounds max.
Radial Torque: 4 inch−ounces max.

* Applicable to CC, CCSF, CCCE & CCCESF

**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 |
|---|---|---|
| NA | NA | NA |
| | | |
| | | |

**NOTICE**



**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 11−28.
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

| | | | | | |
|---|---|---|---|---|---|
| – | | – | | – | |
| MATERIAL | | SPECIFICATION | | PROCUREMENT | |

| APPROVAL | INITIALS | DATE |
|---|---|---|
| DRAWN BY | R.C. | 03.21.02 |
| CHECKED BY | – | – |
| TEST ENGG | | |
| QUALITY | | |
| DESIGN ENGG | H.N. | 03.28.11 |
| MFG ENGG | | |
| ECO APPRV | DNg | 11.20.24 |

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS R/A 4 HOLE FLANGE (.500 SQ) MOUNT FIELD REPLACEABLE

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

| SIZE | CAGE CODE | DRAWING NO. | REV. |
|---|---|---|---|
| C | 30990 | 5530 | F |

ENG−DWG REV. H