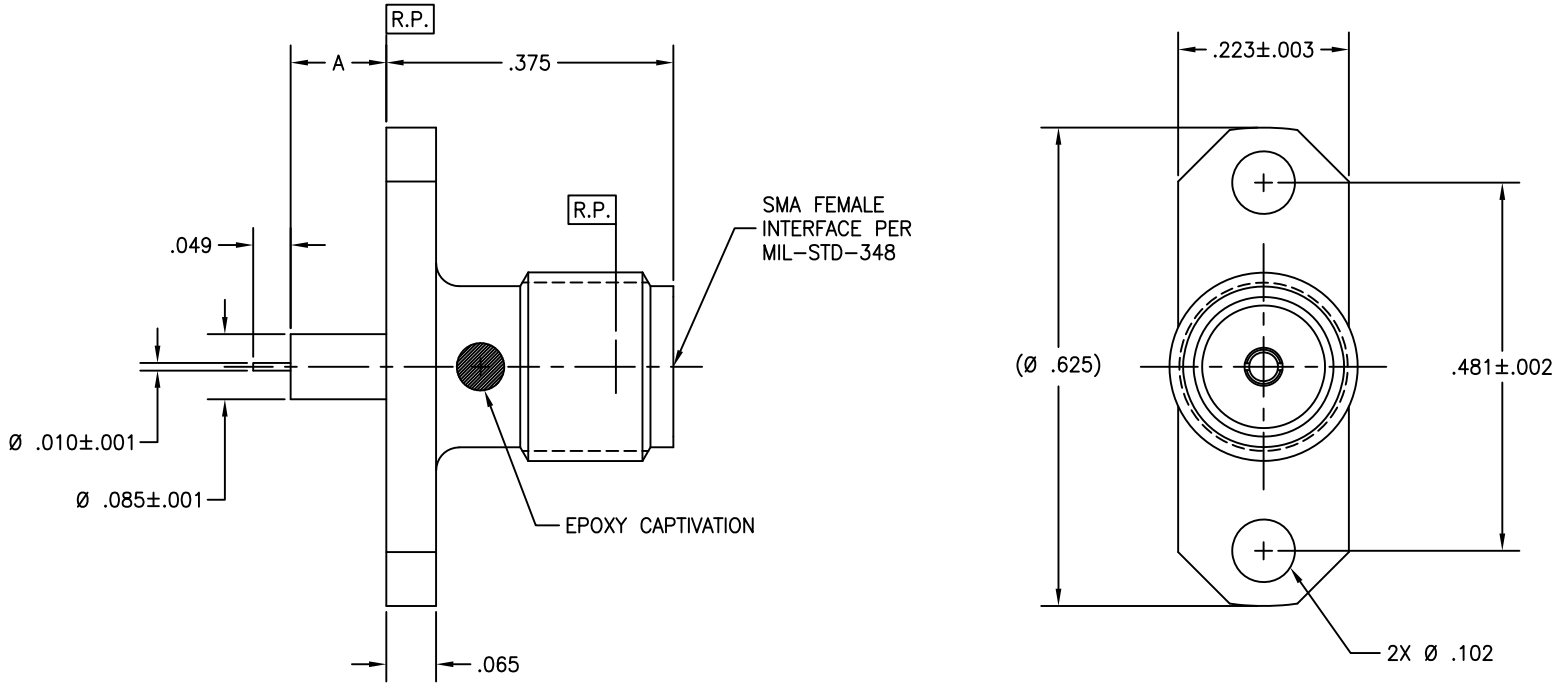
P/N	APPLICABLE NOTE(S)	A
−1CC	1,2	.057
−1CCSF	1,2	.057
−2CC	1,2	.125
−2CCSF	1,2	.125

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	ECO 19913	01.22.07	SLM
B	ECO 202352 (ADD NEW NAME)	11.20.24	DKN



MATERIAL(S):

Body:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Dielectric:
PTFE per ASTM D−1710.
Epoxy:
Sigma VF Type HV

ELECTRICAL:

Impedance: 50 Ohms nominal.
Freqancy Range: DC to 18 GHz.
VSWR: 1.05 + .007 x f(GHz)
Insertion Loss: .04 x $\sqrt{f}$(GHz) dB max.
Working Voltage: 335 Vrms max @ sea level.
DWV: 1,000 Vrms at sea level. Test at 60 Hz.
R.F. HiPot Voltage: 670 Vrms @ 7.5 MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
Contact Resistance:
Center Contact: 4.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

MECHANICAL:

Mating Characteristics:
Interface per Mil−Std−348.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Radial Torque: 4 inch−ounces min.

ENVIRONMENTAL:

Temperature Range: −55°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 CCSF's):
Passivate per ASTM A−967.
Body (For CC's):
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

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.

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MATERIAL	SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	ATV	10.24.01
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	01.23.07
MFG ENGG		
ECO APPRV	DNg	11.20.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE 2 HOLE FLANGE MOUNT MICROSTRIP TRANSMISSION LINE TERMINATION

SCALE 8:1 | DIRECTORY\SUB−DIRECTORY _OUTLINE\ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. 5309 | REV. B

ENG−DWG REV. H