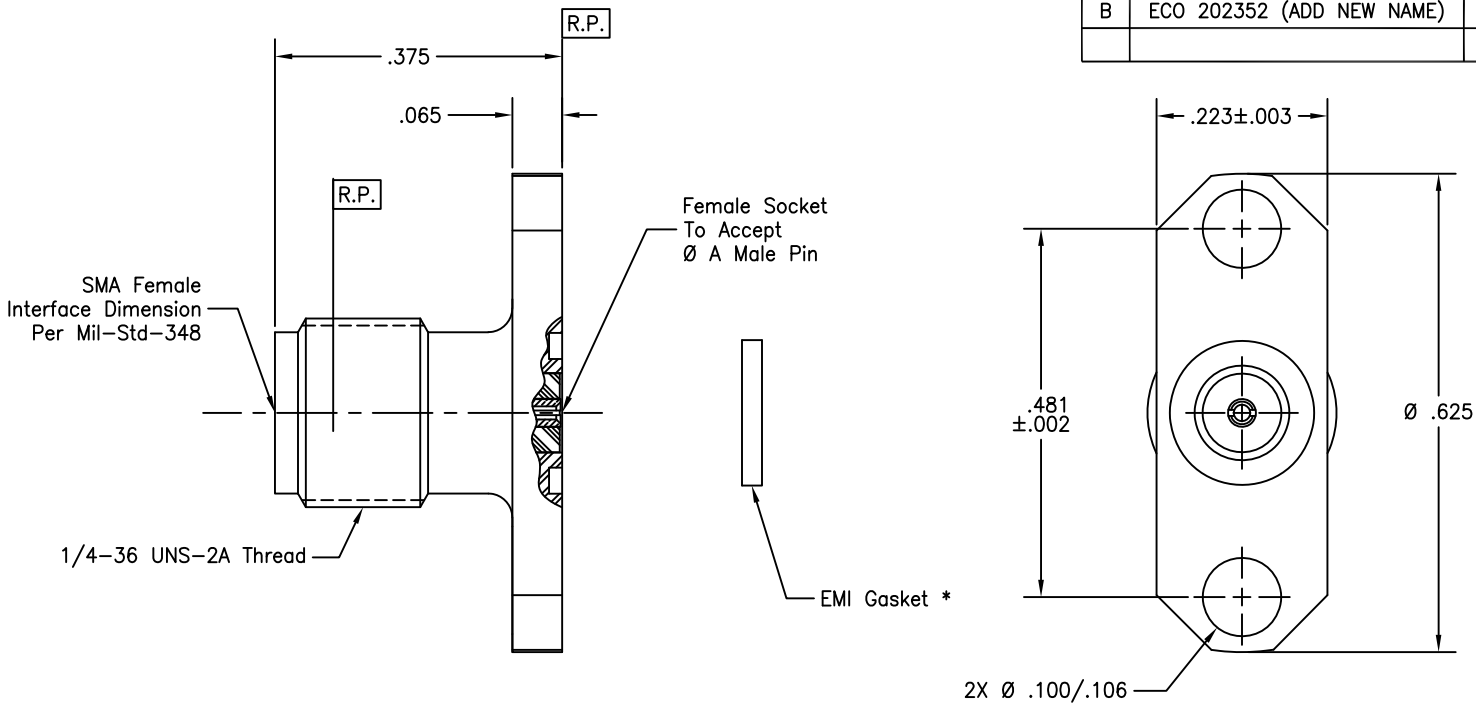
P/N	Ø A
−2CC	.0200±.0005
−2CCSF	
−3CC	.0100±.0005
−3CCSF	
−4CC	.0120±.0005
−4CCSF	
−5CC	.0150±.0005
−5CCSF	
−6CC	.0180±.0005
−6CCSF	

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	ECO 23438	08.12.10	DKN
B	ECO 202352 (ADD NEW NAME)	11.21.24	DKN



* EMI Gasket to be packaged and shipped unassembled.

MATERIAL(S):

Body:
303 sst per ASTM A−582.
Center Conductor:
BeCu alloy per ASTM B−196.
Dielectric:
PTFE per ASTM D 1710.
EMI Gasket:
Silicone per Mil−G−83528.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 26.0 GHz.
VSWR: 1.06 + .005 x f(GHz).
Insertion Loss: .03 $\sqrt{f(GHz)}$ dB
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: −90 dB min at 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:

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 from Interface: 6 pounds min.
Axial Force from Rear End: 3 pounds min.

ENVIRONMENTAL:

Temperature Range: −65°C to +165°C.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B, except high termp shall be 165°C.
Moisture Resistance:
MIL−STD−202, Method 106. Insulation resistance shall be at least 200 MegaOhms within 5 minutes after removal from humidity
Corrosion:
Mil−Std−202, Method 101, Test Cond. C.
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, nitric 1.
(for CC's): Gold plate ASTM B 488, type II, code C, class 0.25; Over nickel underplate per SAE AMS−QQ−N−290, class 1.
Center Conductor:
Gold plate ASTM B 488, type II, code C or D, class 1.25; Over nickel underplate 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.

			–	–	–
			MATERIAL	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	R.C.	04.01.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	06.19.02
MFG ENGG		
ECO APPRV	DNg	11.20.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE 2 HOLE FLANGE (.223 X .625) MOUNT FIELD REPLACEABLE (W/ GASKET)

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

SIZE C | CAGE CODE 30990 | DRAWING NO. 5602 | REV. B

ENG−DWG REV. H