

Technical drawing of an SMA Female 2 Hole Flange (2.23 X .625) Mount Field Replaceable. The drawing includes a table of part numbers (P/N) and dimensions (A), a revision history table, and detailed mechanical and electrical specifications.

P/N	(A)
5663-2CC	.0200
5663-2CCSF	.0200
5663-3CC	.0100
5663-3CCSF	.0100
5663-4CC	.0120
5663-4CCSF	.0120
5663-5CC	.0150
5663-5CCSF	.0150
5663-6CC	.0180
5663-6CCSF	.0180

Revision History:

ECO	REV.	DESCRIPTION	DRAWN BY	DATE
10647	A	-	DKN	09.07.99
11323	B	-	DKN	03.28.00
14523	C	-	ATV	05.13.02
206463	D	REDRAWN IN SW	PAW	08.24.26

Dimensions:

- Overall Length: .375
- Inner Diameter: .065
- Outer Diameter: .625
- Flange Width: .223
- Flange Thickness: .481
- Flange Hole Diameter: 2X .102

Notes:

- NOTE(S):
- 1. OUTLINE DRAWING REVISION IS INDEPENDENT OF PRODUCTION REVISION.

Material and Electrical Specifications:

MATERIAL(S):	ELECTRICAL(S):	MECHANICAL(S):	ENVIROMENTAL(S):
BODY: 303 SST PER ASTM A-582. CENTER CONDUCTOR: BeCu ALLOY C173 PER ASTM B-196. INSULATOR: PTFE PER ASTM D-1710.	IMPEDANCE: 50 OHMS NOMINAL. FREQUENCY RANGE: DC TO 26.0 GHz. VSWR: 1.10:1 DC TO 18 GHz. 1.25:1 18 - 26 GHz. INSERTION LOSS: 0.1 dB MAX TO 26 GHz. WORKING VOLTAGE: 335 Vrms MAX @ SEA LEVEL DIELECTRIC WITHSTANDING VOLTAGE: 1,000 Vrms MIN. R.F. HiPOT VOLTAGE: 670 Vrms MIN @ 5 MHz. CORONA LEVEL: 375 Vrms @ 70,000 ft. INSULATION RESISTANCE: 5,000 MEGOHMS MIN. R.F. LEAKAGE: -90 db MIN AT 2-3 GHz. CONTACT RESISTANCE: INITIAL: CENTER CONTACT: 3.0 MOHM MAX. OUTER CONTACT: 2.0 MOHM MAX. AFTER ENVIRONMENT: CENTER CONTACT: 4.0 MOHM MAX. OUTER CONTACT: NA.	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.	TEMPERATURE RANGE: -65°C TO +165°C. THERMAL SHOCK: MIL-STD-202, METHOD 107, TEST COND. B, EXCEPT HIGH TEMP. SHALL BE +165°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 and Tolerances:

FINISH(ES):	TOLERANCES AND NOTES
BODY: (for CCSF's): PASSIVATED PER ASTM A-967. (for CC's): GOLD PLATE PER ASTM B-488, OVER NICKEL PLATE PER AMS-QQ-N-290. CENTER CONDUCTOR: GOLD PLATE PER ASTM B-488, OVER NICKEL PLATE PER AMS-QQ-N-290.	EXCEPT AS NOTED DIMENSIONS ARE IN INCHES. LINEAR .XX ±.015 / .XXX ±.005 FRACTION ± 1/32 ANGULAR ± 1/2° 1. INTERPRET DRAWING PER ASME Y14.5 - 2018 2. MACHINE FINISH: 63 RMS 3. BREAK ALL SHARP EDGES .003 MAX. 4. MACHINED FILLETS .005 MAX. 5. MACHINED SURFACES SQUARE TO RESPECT- IVE AXIS WITHIN .005 INCHES PER INCH. 6. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R. 7. DIMENSIONS TO BE MET AFTER PLATING. 8. CHAMFER ALL THREADS 45°. 9. THREADS PER H-28 10. REMOVE FRAYED EDGES ON TEFLON. 11. REMOVE ALL BURRS.

Amphenol CDI Documents:

WORK STANDARD	PROD INSTRU	ASSY INSTRU
NA	NA	NA

RoHS 3 Compliant EU 2015/863

Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703

Amphenol CDI SMA FEMALE 2 HOLE FLANGE (.223 X .625) MOUNT FIELD REPLACEABLE

Scale: 8:1

Size: C

Cage Code: 30990

Drawing No.: 5663

Rev.: D