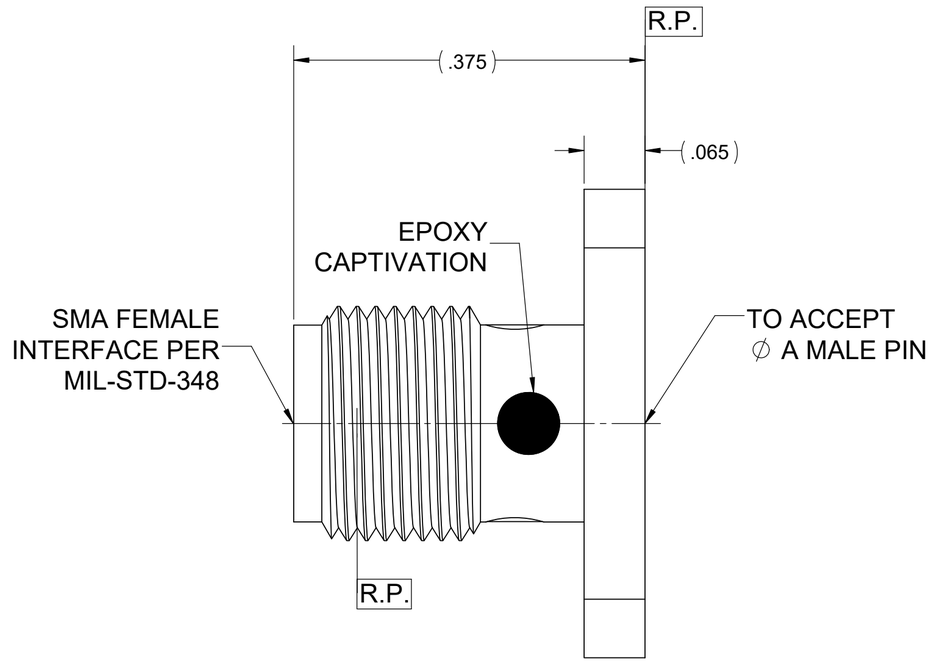
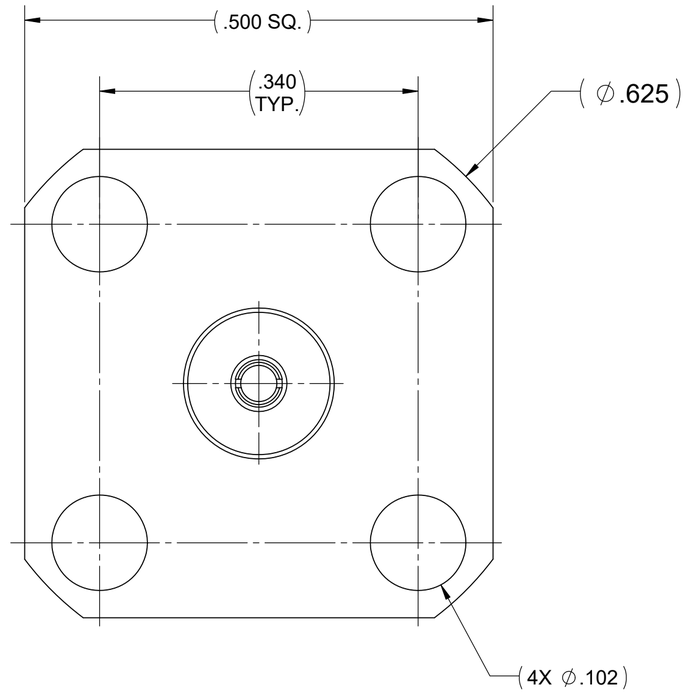
P/N	∅ A
5980-1CC	.0360 ±.0005
5980-1CCSF	.0360 ±.0005
5980-2CC	.0200 ±.0005
5980-2CCSF	.0200 ±.0005
5980-3CC	.0100 ±.0005
5980-3CCSF	.0100 ±.0005
5980-4CC	.0120 ±.0005
5980-4CCSF	.0120 ±.0005
5980-4CCCESF	.0120 ±.0005
5860-5CC	.0150 ±.0005
5860-5CCSF	.0150 ±.0005
5860-6CC	.0180 ±.0005
5860-6CCSF	.0180 ±.0005

REVISION HISTORY

ECO	REV.	DESCRIPTION	DRAWN BY	DATE
20713	A	ADD -4CCCESF	DKN	11.07.07
28213	B	CHG TEMPERATURE	YP	11.03.14
205814	C	REDRAWN IN SW	PAW	07.15.26





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

MATERIAL(S):

BODY:
303 SST PER ASTM A-582.
CENTER CONDUCTOR:
BeCu ALLOY PER ASTM B-196.
DIELECTRIC:
PTFE PER ASTM D-1710.
EPOXY:(for CC& CCSF)
SIGMA VF TYPE HV.
CONDUCTIVE EPOXY: (for CCCESF)
ECCOBOND 56C.

ELECTRICAL(S):

IMPEDANCE: 50 OHMS NOMINAL.
FREQUENCY RANGE: DC TO 18.0 GHz.
VSWR: 1.06 + .005 x f(GHz).
INSERTION LOSS: .05√f(GHz) dB MAX.
WORKING VOLTAGE: 335 Vrms @ SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE:
1,000 Vrms.
RF HiPOT VOLTAGE: 670 Vrms.
CORONA LEVEL: 250 Vrms @ 70,000 ft.
INSULATION RESISTANCE: 5,000 MEGOHMS MIN.
R.F. LEAKAGE: -60 dB MAX AT 2 TO 3 GHz.
CONTACT RESISTANCE:
INITIAL:
CENTER CONDUCTOR: 3.0 Milliohms MAX.
OUTER CONDUCTOR: 2.0 Milliohms MAX.
AFTER:
CENTER CONDUCTOR: 4.0 Milliohms MAX.
OUTER CONDUCTOR: NA.

MECHANICAL(S):

MATING CHARACTERISTICS:
INTERFACE PER MIL-STD-348.
FORCE TO ENGAGE & DISENGAGE (CONTACT):
ENGAGE: 3 INCH-POUNDS MAX.
DISENGAGE: 1 OZ. MIN.
FORCE TO ENGAGE & DISENGAGE (CONNECTOR):
2 INCH-POUNDS MAX TORQUE.
CONNECTOR DURABILITY:
500 CYCLES MIN @ 12 CYCLES/MINUTE MAX.
PERMEABILITY: LESS THAN 2.0 mu.
* CENTER CONTACT CAPTIVATION:
AXIAL FORCE: 8 POUNDS MIN.
RADIAL TORQUE: 6 INCH-OUNCES MIN.

*APPLICABLE TO CC, CCSF, CCCE, & CCCESF

ENVIROMENTAL(S):

TEMPERATURE RANGE: -65˚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 SF's): PASSIVATE PER ASTM A-967.
(for CC's): GOLD PLATE PER ASTM B-488, OVER NICKEL UNDER PLATE PER AMS-QQ-N-290.
CENTER CONDUCTOR:
GOLD PLATE PER ASTM B-488, OVER NICKEL UNDER PLATE PER AMS-QQ-N-290.

RoHS 3 Compliant EU 2015/863

APPLICABLE Amphenol CDI DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO AMPHENOL. AND SHALL IN NO WAY BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WHEN SUCH USER POSSESSES DIRECT, WRITTEN AUTHORIZATION FROM AMPHENOL.

TOLERANCES AND NOTES
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
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 AFTER PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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MATERIAL	SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	R.C.	03/21/02

SEE ECO FOR APPROVAL SIGNATURES

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA FEMALE 4 HOLE FLANGE (.500 SQ.) MOUNT FIELD REPLACEABLE

SCALE		SHEET	OF
8:1		1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5980	C