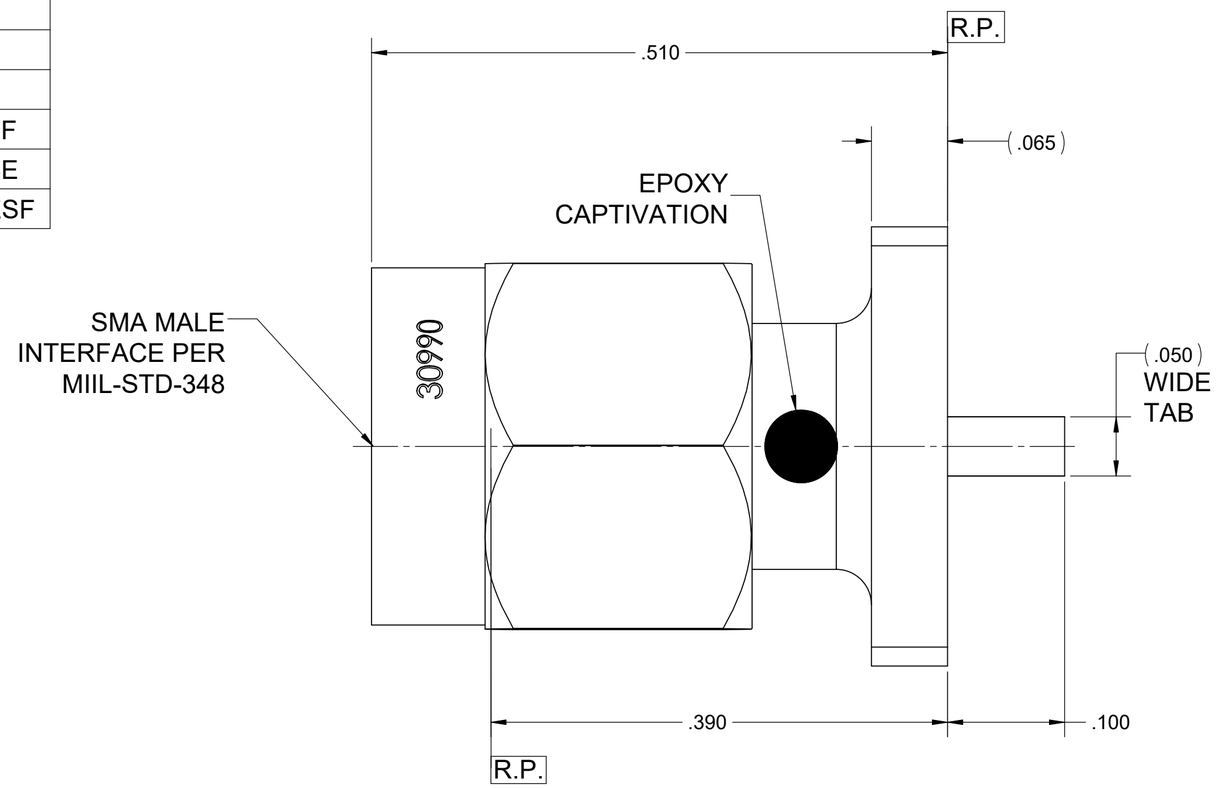
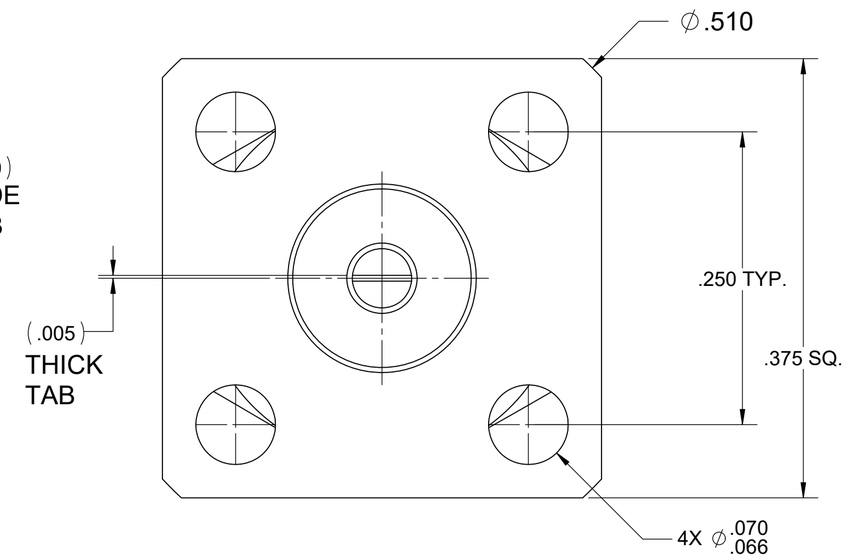
P/N
5930
5930SF
5930CC
5930CCSF
5930CCCE
5930CCCESF

REVISION HISTORY

ECO	REV.	DESCRIPTION	DRAWN BY	DATE
21220	A	INITIAL RELEASE	DKN	04.23.08
205814	B	REDRAWN IN SW	PAW	07.14.26





NOTE(S):
1. OUTLINE DRAWING REVISION IS INDEPENDENT OF PRODUCTION REVISION.
2. CONNECTOR TO BE SUPPLIED WITH PROTECTIVE CAP.

MATERIAL(S):

BODY AND COUPLING NUT:
303 SST PER ASTM A-582.
RETAINING RING:
BeCu ALLOY PER ASTM B-196.
GASKET:
SILICONE PER A-A-59588.
CENTER CONDUCTOR:
BeCu ALLOY PER ASTM B-196.
DIELECTRIC:
PTFE PER ASTM D-1710.
EPOXY:
(for CC's) SIGMA VF TYPE HV.
(for CCCE's) ECCOBOND 56C.

ELECTRICAL(S):

IMPEDANCE: 50 OHMS NOMINAL.
FREQUENCY RANGE: DC TO 18.0 GHz.
VSWR: 1.05 + .007 x f(GHz).
INSERTION LOSS: .04√f(GHz).
WORKING VOLTAGE: 335 Vrms @ SEA LEVEL
150 Vrms @ 70,000 ft.
DIELECTRIC WITHSTANDING VOLTAGE:
1,000 Vrms.
RF HiPOT VOLTAGE: 670 Vrms.
CORONA LEVEL: 250 Vrms MIN.
INSULATION RESISTANCE: 5,000 MEGOHMS.
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.
PERMEABILITY: LESS THAN 2.0 mu.

MECHANICAL(S):

MATING CHARACTERISTICS:
INTERFACE PER MIL-STD-348.
FORCE TO ENGAGE & DISENGAGE:
TORQUE: 2 INCH-POUNDS MAX.
LONGITUDINAL FORCE: NA.
CENTER CONTACT CAPTIVATION:
AXIAL FORCE: 6 POUNDS MIN.
TORQUE: 4 INCH-OUNCES MIN.
CONNECTOR DURABILITY:
500 CYCLES MIN @ 12 CYCLES/MINUTE MAX.
COUPLING PROOF TORQUE:
15 INCH-POUNDS MIN.
COUPLING MECHANISM RETENTION FORCE:
60 POUNDS MIN.

ENVIROMENTAL(S):

TEMPERATURE RANGE: -65°C TO +165°C.
THERMAL SHOCK:
MIL-STD-202, METHOD 107, TEST COND. A.
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):

CENTER CONDUCTOR:
GOLD PLATE PER ASTM B-488, OVER NICKEL PLATE PER AMS-QQ-N-290.
BODY & COUPLING NUT:
(for BASIC & CC's): GOLD PLATE PER ASTM B-488, OVER NICKEL PLATE PER AMS-QQ-N-290.
(for SF & CCSF's): PASSIVATE PER ASTM A-967.

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
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.	04/02/02

SEE ECO FOR APPROVAL SIGNATURES

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMA MALE 4 HOLE FLANGE (.375 SQ) MOUNT TO HOR. TAB TERMINATION

SCALE		SHEET	OF
10:1		1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5930	B