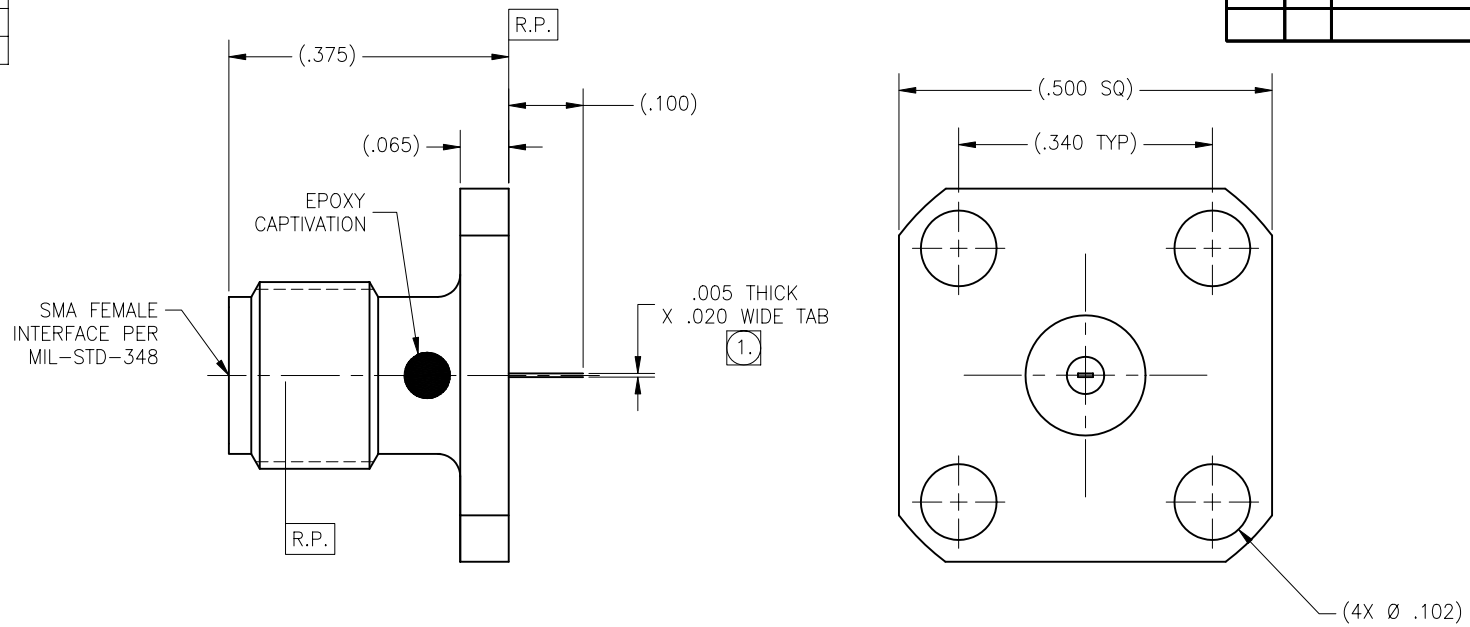
P/N
BASIC
SF
CC
CCSF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	A	ECO 23058	04.07.10	DKN



NOTE(S):

1. CENTER CONDUCTOR TO BE SUPPLIED UNASSEMBLED FOR BASIC & SF ONLY.
2. CONNECTOR TO BE SHIPPED WITH PROTECTIVE CAP (NOT SHOWN), NOT APPLICABLE TO BASIC & SF.

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(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.05 + .005 X (fGHz).
Insertion Loss: .03 $\sqrt{f}$ (GHz).
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: –(90 – fGHz) dB min. for Basic & SF.
–(60 – fGHz) dB min. for CC & CCSF.
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(S):

Mating Characteristics:
Interface per Mil–Std–348.
Force To Engage & Disengage:
Torque: 2 inch–pounds max.
Longitudinal Force: NA.
Center Contact Retention:
Axial Force: 6 pounds min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
*Center Contact Captivation:
Axial Force: 6 pounds min.
Torque: 4 inch–ounces min.

* Applicable to CC & CCSF

ENVIRONMENTAL(S):

Temperature Range: –65°C to +165°C.
Thermal Shock:
Mil–Std–202, Method 107, Test Cond. B.
Moisture Resistance:
Mil–Std–202, Method 106, Insulation reistance 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 Basic & 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.

APPLICABLE CARLISLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

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TOLERANCES AND NOTES EXCEPT AS NOTED

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 H–28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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MATERIAL	SIZE	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	R.C.	03.25.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNg.	04.07.10
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMA FEMALE 4 HOLE (.500 SQ) FLANGE MOUNT TO TAB TERMINATION

SCALE	SUB–DIRECTORY\FILENAME	SHEET
8:1	OL_\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5763	A

ENG–DWG REV. C