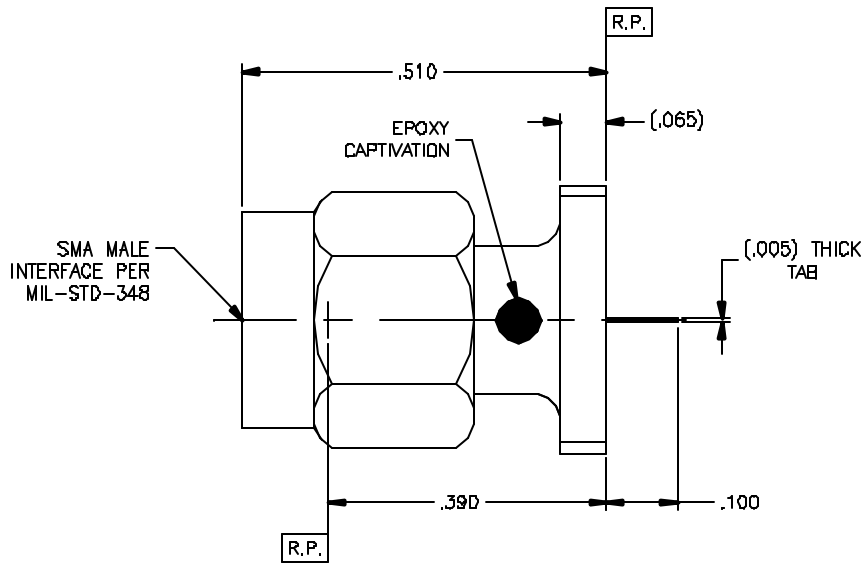
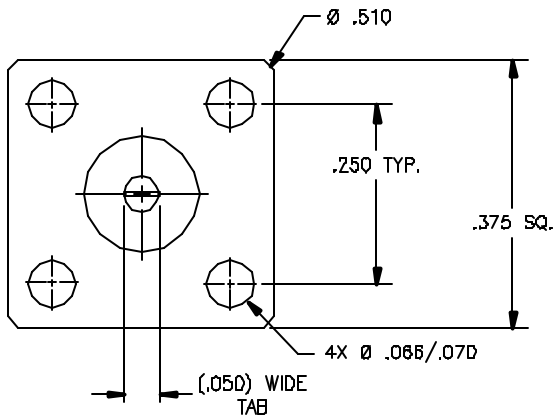
P/N
BASIC
SF
CC
CCSF
CCCE
CCCESF

REVISIONS				
ZONE	REV.	DESCRIPTION(S)	DATE	BY
–	A	ECO 21220	04.23.08	DKN





Note(s):

1. 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:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.05 + .007 x f(GHz).
Insertion Loss: .04 $\sqrt{f}$(GHz).
Working Voltage: 335 Vrms @ Sea Level.
150 Vrms @ 70,000 ft.
Dielectric Withstand Voltage: 1,000 Vrms.
RF HiPot Withstand Voltage: 670 Vrms.
Corona Level: 250 Vrms Min.
Insulation Resistance: 5,000 MegaOhms.
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:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-lbs 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-lbs Min
Coupling Mechanism Retention Force:
60 lbs Min

ENVIRONMENTAL:

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.
Body & Coupling Nut (For SF & CCSF's):
Passivate per ASTM A-967.

APPLICABLE TENSOLITE 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 ±.010 .XXX ±.005 ANGULAR ± 1/2
FRACTION ± 1/32
1. MACHINE FINISH 63/ RMS.
2. BREAK ALL SHARP EDGES .010 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACE PARALLEL TO REFERENCE AXIS WITHIN .004 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .005 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28.
9. REMOVE PRIMED EDGES BY TUMBLER.
10. REMOVE ALL BURRS.

MATERIAL			–	–	–	–
			SIZE	SCALE	FINISH	FINISH
APPROVAL SIGNATURE		DATE	Tensolite HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS Long Beach, California 90810			
DRAWN BY	R.C.	04.02.02	TITLE SMA MALE 4 HOLE FLANGE (.375 SQ) MOUNT TO HOR. TAB TERMINATION			
CHECKED BY						
TEST ENGR						
QUALITY			SCALE 10:1	NON-DIMENSIONAL TOLERANCE _OL\	SHEET 1 OF 1	
DESIGN ENGR	DKN	04.23.08	SIZE C	CAGE CODE 30990	DRAWING NO. 5930	REV. A
MFG ENGR						

ENG-DWG REV. B