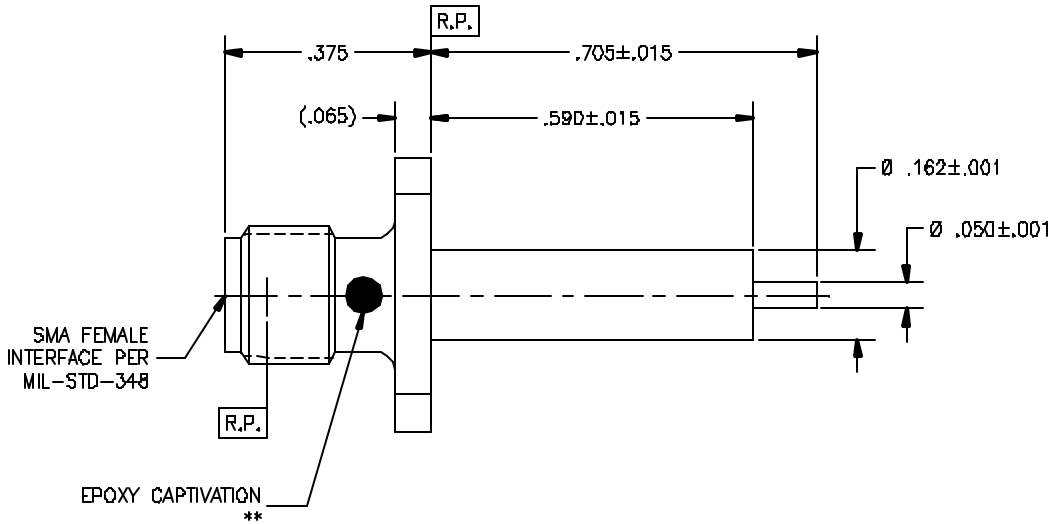
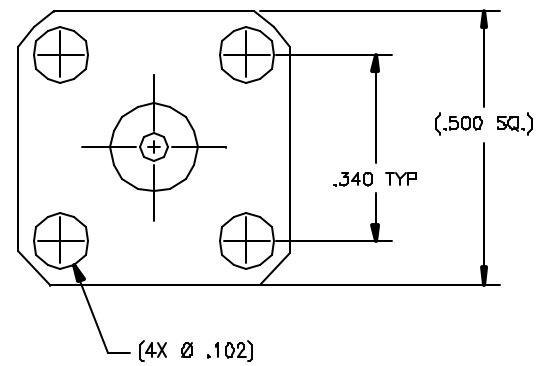
P/N
BASIC
SF
CC
CCSF
CCCE
CCCESF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	A	ECO 20031	05.23.07	DKN
–	B	ECO 20515	08.29.07	DKN





** NOT APPLICABLE TO BASIC & SF

DRAWING NO. 5220 REV. B

MATERIAL:

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, CCCE & CCCESF)
Sigma VF Type HV.
Conductive Epoxy: (for CCCE & CCCESF)
Eccobond 56C.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.05 + .005 (fGHz).
Insertion Loss: .03 $\sqrt{f}$ (GHz).
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: –(60 – fGHz) dB min. for CC & CCSF.
–(90 – fGHz) dB min. for BASIC, SF, CCCE & CCCESF.
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:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-pounds max.
Longitudinal Force: NA.
Center Contact Retention:
Axial Force: 5 pounds min.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
* Center Contact Captivation:
Axial Force: 5 pounds min.
Radial Torque: 4 inch-ounces min.

* Applicable to CC, CCSF, CCCE & CCCESF

ENVIRONMENTAL:

Temperature Range: –65°C to +125°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:

Body: (for SF, CCSF & CCCESF)
Passivated per ASTM A-967.
Body: (for Basic, CC & CCCE)
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 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 ±0.010 .XXX ±0.005 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 SURFACES SQUARE TO PERPENDICULAR AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .005 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. REMOVE ALL BURRS 48.
8. TAGANT PER H-28.
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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MATERIAL		SIZE		SPECIFICATION	PROCUREMENT
APPROVAL STATUS	DATE	Tensolite		HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS Long Beach, California 90815	
DRAWN BY NG	03.21.02	TITLE		SMA FEMALE 4 HOLE (.500 SQ) FLANGE MOUNT TO STRAIGHT TERMINATION	
CHECKED BY		SCALE 6:1	SUB-DIVISIONAL LEVEL QL_\		SHEET 1 OF 1
TEST ENGR					
QUALITY					
DESIGN ENGR DNg	08.30.07	SIZE C	CAGE CODE 30990	DRAWING NO. 5220	REV. B
MFG ENGR					

ENG-DWG REV. B