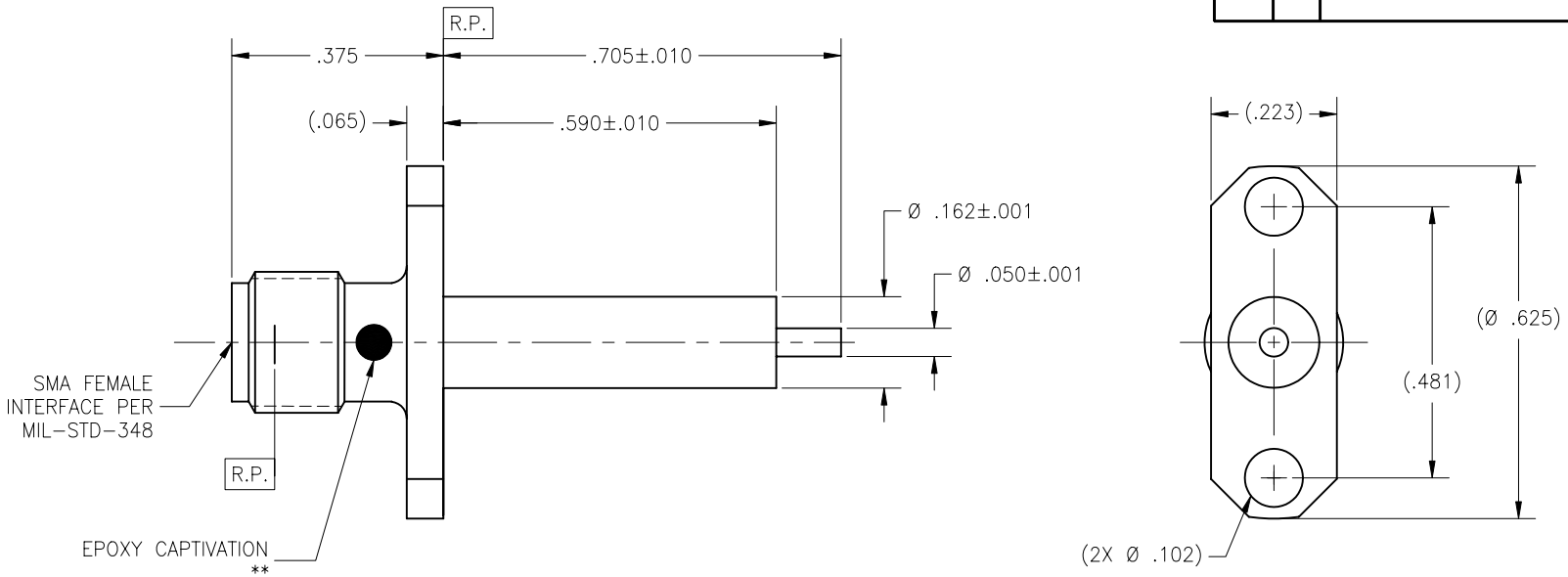
P/N
BASIC
SF
CC
CCSF

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	A	ECO 20370	07.09.07	DKN



** NOT APPLICABLE TO BASIC & SF

DRAWING NO.	REV.
5032	A

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)
Sigma VF Type HV.

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.
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: 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.
Radial Torque: 4 inch–ounces min.

* Applicable to CC & CCSF

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)
Passivated per AMS–QQ–N–290.
Body: (for Basic & CC)
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 ±.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	IMG	03.22.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	07.10.07
MFG ENGG		

Tensolite
HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS
Long Beach, California 90815

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

SCALE	SUB–DIRECTORY\FILENAME	SHEET
6:1	OL_\	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5032	A

ENG–DWG REV. B