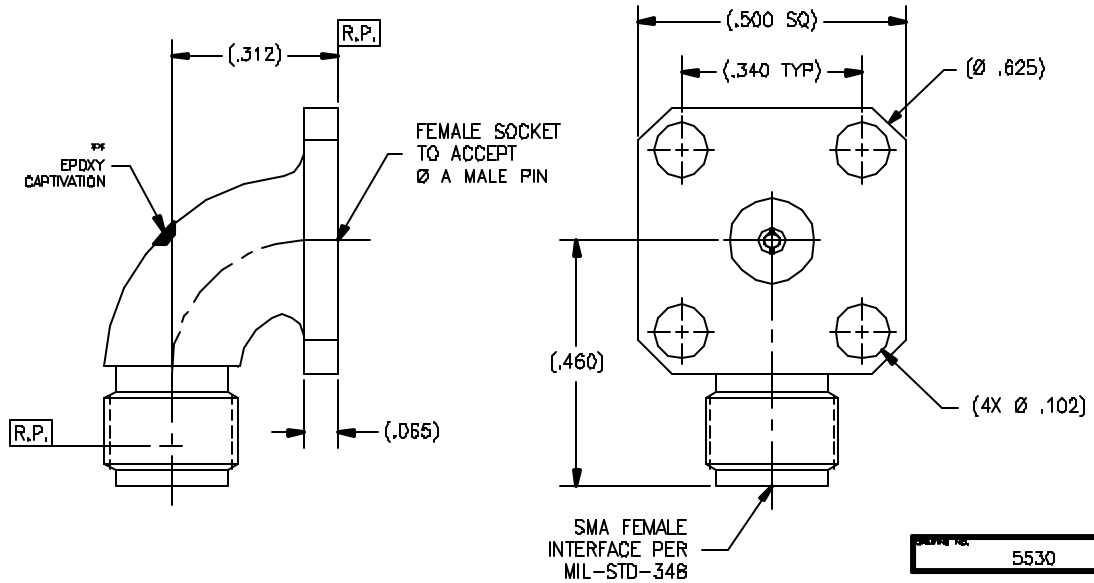
P/N	Ø A ±.001
-1	.036
-1CC	.036
-1CCCE	.036
-1CCCESF	.036
-1CCSF	.036
-1SF	.036
-2	.020
-2CC	.020
-2CCCE	.020
-2CCCESF	.020
-2CCSF	.020
-2SF	.020
-3	.010
-3CC	.010
-3CCCE	.010
-3CCCESF	.010
-3CCSF	.010
-3SF	.010

P/N	Ø A ±.001
-4	.012
-4CC	.012
-4CCCE	.012
-4CCCESF	.012
-4CCSF	.012
-4SF	.012
-5	.015
-5CC	.015
-5CCCE	.015
-5CCCESF	.015
-5CCSF	.015
-5SF	.015
-6	.018
-6CC	.018
-6CCCE	.018
-6CCCESF	.018
-6CCSF	.018
-6SF	.018

REVISIONS				
ZONE	REV.	DESCRIPTION(S)	DATE	BY
–	A	ECO 20336	06.20.07	DKN
–	B	ECO 20517	08.30.07	DKN



DRAWING NO. 5530 REV. B

** NOT APPLICABLE TO BASIC AND SF

MATERIAL(S):

Body:
304 sst per SAE-AMS-5511.
Center Conductor:
BeCu alloy per ASTM B-196.
Dielectric:
PTFE per ASTM D-1710.
Epoxy: (for CC's)
Sigma VF Type HV.
Epoxy: (for CCCE's)
Ableband 16-1.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18 GHz.
VSWR: 1.06 + .005 x f(GHz).
Insertion Loss: .10 dB max @ 6GHz.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,500 Vrms min.
R.F. HiPot Voltage: 1,000 Vrms min @ 5MHz.
Corona Level: 375 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: -60 dB min. from 2-3 GHz.
Contact Resistance:
Initial:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

MECHANICAL(S):

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

* Applicable to CC, CCSF, CCCE & CCCESF

ENVIRONMENTAL(S):

Temperature Range: -65°C to +125°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. C.
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):

Body: (for SF's)
Passivate per ASTM A-967.
Body: (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 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 .005 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACE TEXTURE TO SUPPORTIVE 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 ON RIFLER.
10. REMOVE ALL BURRS.

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MATERIAL	SIZE	SPECIFICATION	FINISH/COMMENT	
APPROVAL DETAILS		DATE		
DRAWN BY	R.C.	03.21.02		
CHECKED BY				
TEST ENGR				
QUALITY				
DESIGN ENGR	DNg	08.30.07		
MFG ENGR				

Tensolite
HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS
Long Beach, California 90810

TITLE: SMA FEMALE RADIUS R/A 4 HOLE FLANGE (.500 SQ) MOUNT FIELD REPLACEABLE

SCALE 8:1 NON-DIMENSIONAL TOLERANCE OL SHEET 1 OF 1
SIZE C CAGE CODE 30990 DRAWING NO. 5530 REV. B

ENG-DWG REV. B