

REVISIONS				REVISIONS			
ZONE	REV	DESCRIPTION	DATE	ZONE	REV	DESCRIPTION	DATE
—	A	ECO 19913	01.22.07	—	A	ECO 19913	01.22.07
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P/N	APPLICABLE NOTE(S)	A
—1CC	1,2	.057
—1CCSF	1,2	.057
—2CC	1,2	.125
—2CCSF	1,2	.125

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:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18 GHz.
VSWR: $1.05 + .007 \cdot f(\text{GHz})$
Insertion Loss: $.04 \times \sqrt{f(\text{GHz})}$ dB max.
Working Voltage: 335 Vrms max @ sea level.
DWV: 1,000 Vrms at sea level. Test at 60 Hz.
R.F. HiPot Voltage: 670 Vrms @ 7.5 MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
Contact Resistance:
Center Contact: 4.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348.
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.

ENVIRONMENTAL:

Temperature Range: -55°C to +165°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. B.
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 CCSF's):
Passivate per ASTM A-967.
Body (For 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	ASST	INST
NA		NA	NA	NA	NA

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TOLERANCES AND NOTES EXCEPT AS NOTED

DIMENSIONS ARE IN INCHES
LINEAR .XX ±.015
FRACTION .XX ±.005
FRACTION ± 1/32

1. MACHINE FINISH ✓ 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. .002 TYP. DIMENSIONS CONCERNING PLATING
6. DIMENSIONS TO BEAMS BEFORE PLATING
7. DIMENSIONS TO BEAMS AFTER PLATING
8. THREADS PER H-28
9. DIMENSIONS TO BEAMS AFTER PLATING
10. REMOVE ALL BURRS

SEE NOTES

MATERIAL

DATE

APPROVAL INITIALS

DRAWN BY

CHECKED

QUALITY

ENGINEERING

SEE NOTES

SIZE

PROCUREMENT

HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS

Long Beach, California 90815

Tensolite

TITLE

SMA FEMALE 2 HOLE FLANGE MOUNT MICROSTRIP TRANSMISSION LINE TERMINATION

SCALE

8:1

SUB-DIRECTORY/NAME

01

SHEET

1

OF

1

CAGE CODE

C 30990

DRAWING NO.

5309

REV.

A

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REV.

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