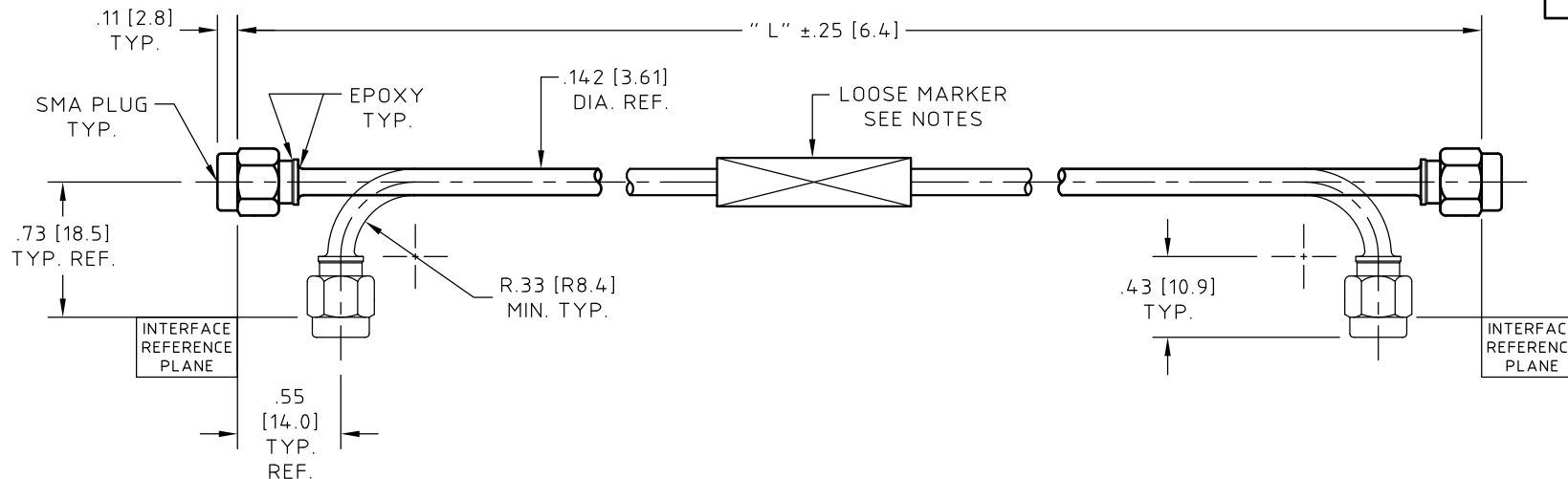


CONTROL DRAWING

mini141 W-XX



HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		18.0 GHz		26.5 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
mini141 W-2.5	2.50 [63.5]	1.18:1	0.13	1.27:1	0.27	1.35:1	0.39	1.40:1	0.52
mini141 W-3	3.00 [76.2]	1.18:1	0.13	1.27:1	0.29	1.35:1	0.42	1.40:1	0.55
mini141 W-3.5	3.50 [88.9]	1.18:1	0.14	1.27:1	0.31	1.35:1	0.44	1.40:1	0.58
mini141 W-4	4.00 [101.6]	1.18:1	0.15	1.27:1	0.33	1.35:1	0.46	1.40:1	0.60
mini141 W-4.5	4.50 [114.3]	1.18:1	0.16	1.27:1	0.35	1.35:1	0.48	1.40:1	0.63
mini141 W-5	5.00 [127.0]	1.18:1	0.16	1.27:1	0.37	1.35:1	0.51	1.40:1	0.66
mini141 W-5.5	5.50 [139.7]	1.18:1	0.17	1.27:1	0.38	1.35:1	0.53	1.40:1	0.69
mini141 W-6	6.00 [152.4]	1.18:1	0.18	1.27:1	0.40	1.35:1	0.55	1.40:1	0.72
mini141 W-6.5	6.50 [165.1]	1.18:1	0.18	1.27:1	0.42	1.35:1	0.57	1.40:1	0.74
mini141 W-7	7.00 [177.8]	1.18:1	0.19	1.27:1	0.44	1.35:1	0.60	1.40:1	0.77
mini141 W-8	8.00 [203.2]	1.18:1	0.21	1.27:1	0.48	1.35:1	0.64	1.40:1	0.83
mini141 W-9	9.00 [228.6]	1.18:1	0.22	1.27:1	0.51	1.35:1	0.69	1.40:1	0.88
mini141 W-10	10.00 [254.0]	1.18:1	0.24	1.27:1	0.55	1.35:1	0.73	1.40:1	0.94
mini141 W-11	11.00 [279.4]	1.18:1	0.25	1.27:1	0.59	1.35:1	0.78	1.40:1	0.99
mini141 W-12	12.00 [304.8]	1.18:1	0.26	1.27:1	0.63	1.35:1	0.82	1.40:1	1.05
mini141 W-13	13.00 [330.2]	1.18:1	0.30	1.27:1	0.68	1.35:1	0.89	1.40:1	1.13
mini141 W-14	14.00 [355.6]	1.18:1	0.31	1.27:1	0.72	1.35:1	0.93	1.40:1	1.18
mini141 W-15	15.00 [381.0]	1.18:1	0.33	1.27:1	0.76	1.35:1	0.98	1.40:1	1.24
mini141 W-16	16.00 [406.4]	1.18:1	0.34	1.27:1	0.79	1.35:1	1.02	1.40:1	1.29
mini141 W-		1.18:1		1.27:1		1.35:1		1.40:1	

NOTES:

- DESCRIPTION:
CABLE ASSEMBLY, WEATHERIZED,
SMA PLUG TO SMA PLUG.
- CABLE:
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32022E
MEETS OR EXCEEDS MIL-DTL-17.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING
FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, SMA PLUG:
HUBER+SUHNER Astrolab P/N 29094WR-32-22
INTERFACE DIMENSIONS IAW MIL-STD-348.
SEE HUBER+SUHNER Astrolab CONTROL DRAWING
FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, SMA PLUG:
SAME AS CONNECTOR -A-.
- MARKING:
LOOSE, WHITE SLEEVING CAPTIVATED
ONTO CABLE ASSEMBLY.
MARKING WILL INCLUDE THE HUBER+SUHNER
Astrolab PART NUMBER, CAGE CODE
AND DATE CODE FOR DATE OF MANUFACTURE.

NOTES CONTINUED:

- NO MARKING ON CABLE ASSEMBLIES
SHORTER THAN 3.0" [76.2].
MARKING ON PACKAGING ONLY.
- ELECTRICAL CHARACTERISTICS:
IMPEDANCE,
50.0 Ohms NOMINAL.
FREQUENCY, INSERTION LOSS AND VSWR,
SEE CHART.
- MECHANICAL:
OPERATING TEMPERATURE RANGE,
-55° C TO +125° C.
PULL STRENGTH TO 25 Lbs [111.2 N].
- ENVIRONMENTAL LIMITS:
MOISTURE RESISTANCE,
PER MIL-STD-202, METHOD 106.
- ATTENUATION FORMULAS:
9A. CALCULATE AT 18.0 GHz
(dB) = .55 dB/FT. X L(ft.)+.27 dB
9B. CALCULATE AT 26.5 GHz
(dB) = .67 dB/FT. X L(ft.)+.38 dB

SEE NOTE 9

UNLESS OTHERWISE SPECIFIED
CONCENTRICITY .004 T.I.R.
CORNERS AND FILLETS .005
MAX. RADIUS OR CHAMFER.
SURFACE FINISH 63 RMS
MICROINCHES OR BETTER.

FRACTIONS	± 1/16
X	± .030
XX	± .015
XXX	± .005
ANGLES	± 1°
DO NOT SCALE DRAWING	

NAME	DATE
PREP. GSG	07/08/03
ELEC. RF	07/08/03
MECH. DPD	07/08/03
Q.C. AG	07/08/03

HUBER+SUHNER
Astrolab

THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.

ROHS 5/6 COMPLIANT

TITLE CABLE ASSY, TYPE mini141, SMA PLUG TO SMA PLUG, WEATHERIZED		SCALE 1:1	CODE IDENT. 16301	DWG NO. mini141 W-XX	REV J
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.					

J	ECN No. 15819	10/04/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED