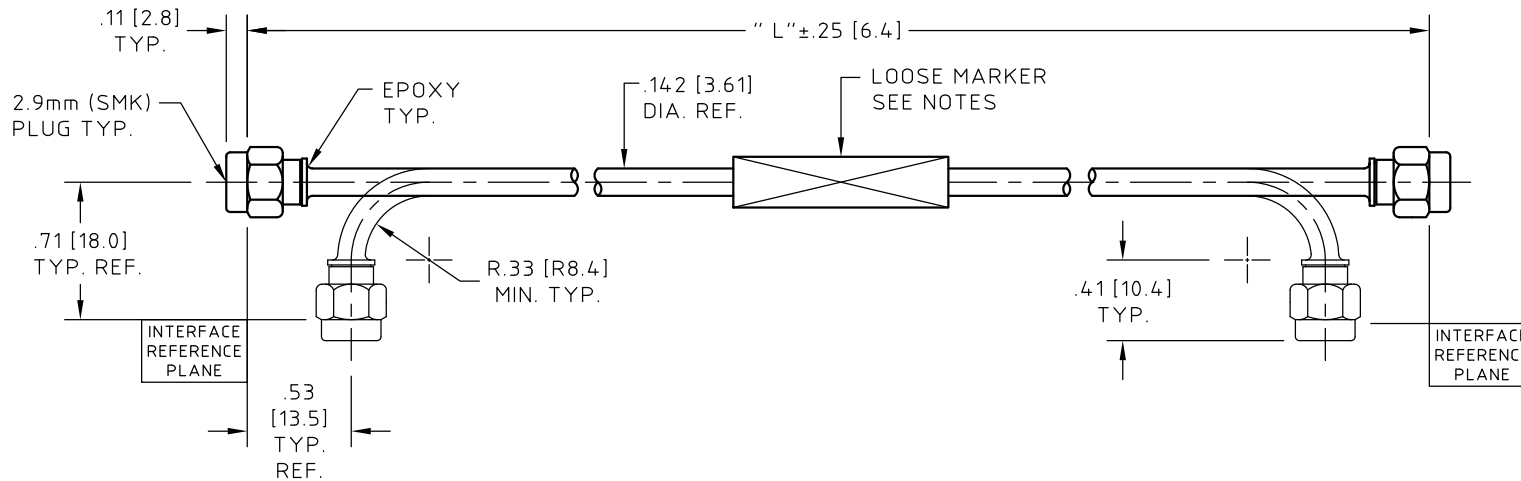


# CONTROL DRAWING

mini141 K-XX

P



HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		18.0 GHz		26.5 GHz		40.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
mini141 K-2.5	2.50 (63.5)	1.15:1	0.13	1.35:1	0.37	1.40:1	0.45	1.45:1	0.68
mini141 K-3	3.00 (76.2)	1.15:1	0.14	1.35:1	0.39	1.40:1	0.48	1.45:1	0.71
mini141 K-3.5	3.50 (88.9)	1.15:1	0.15	1.35:1	0.41	1.40:1	0.50	1.45:1	0.74
mini141 K-4	4.00 (101.6)	1.15:1	0.16	1.35:1	0.43	1.40:1	0.53	1.45:1	0.78
mini141 K-4.5	4.50 (114.3)	1.15:1	0.17	1.35:1	0.46	1.40:1	0.56	1.45:1	0.82
mini141 K-5	5.00 (127.0)	1.15:1	0.17	1.35:1	0.48	1.40:1	0.59	1.45:1	0.85
mini141 K-5.5	5.50 (139.7)	1.15:1	0.19	1.35:1	0.50	1.40:1	0.62	1.45:1	0.89
mini141 K-6	6.00 (152.4)	1.15:1	0.19	1.35:1	0.53	1.40:1	0.65	1.45:1	0.92
mini141 K-6.5	6.50 (165.1)	1.15:1	0.20	1.35:1	0.55	1.40:1	0.68	1.45:1	0.96
mini141 K-7	7.00 (177.8)	1.15:1	0.20	1.35:1	0.57	1.40:1	0.70	1.45:1	0.99
mini141 K-8	8.00 (203.2)	1.15:1	0.22	1.35:1	0.62	1.40:1	0.76	1.45:1	1.06
mini141 K-9	9.00 (228.6)	1.15:1	0.23	1.35:1	0.66	1.40:1	0.81	1.45:1	1.13
mini141 K-10	10.00 (254.0)	1.15:1	0.25	1.35:1	0.71	1.40:1	0.87	1.45:1	1.20
mini141 K-11	11.00 (279.4)	1.15:1	0.26	1.35:1	0.75	1.40:1	0.92	1.45:1	1.27
mini141 K-12	12.00 (304.8)	1.15:1	0.27	1.35:1	0.80	1.40:1	0.98	1.45:1	1.34
mini141 K-13	13.00 (330.2)	1.15:1	0.29	1.35:1	0.85	1.40:1	1.04	1.45:1	1.41
mini141 K-14	14.00 (355.6)	1.15:1	0.30	1.35:1	0.89	1.40:1	1.09	1.45:1	1.48
mini141 K-15	15.00 (381.0)	1.15:1	0.32	1.35:1	0.94	1.40:1	1.15	1.45:1	1.55
mini141 K-16	16.00 (406.4)	1.15:1	0.33	1.35:1	0.98	1.40:1	1.20	1.45:1	1.62
mini141 K-		1.15:1		1.35:1		1.40:1		1.45:1	

NOTES:

- DESCRIPTION,  
CABLE ASSEMBLY, 2.9mm (SMK) PLUG TO 2.9mm (SMK) 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-, 2.9mm (SMK) PLUG:  
HUBER+SUHNER Astrolab P/N 29094KCR-32-22 INTERFACE DIMENSIONS IAW MIL-STD-348. SEE HUBER+SUHNER Astrolab CONTROL DRAWING FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, 2.9mm (SMK) 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.
- ATTENUATION FORMULAS:  
8A. CALCULATE AT 26.5 GHz  
(dB) = .67 dB/FT. X L(ft.)+.31 dB  
8B. CALCULATE AT 40.0 GHz  
(dB) = .83 dB/FT. X L(ft.)+.51 dB

SEE NOTE 8

**ROHS 5/6 COMPLIANT**

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. BG	12/05/01
ELEC. RF	12/05/01
MECH. GSG	12/05/01
Q.C. AG	12/05/01

**HUBER+SUHNER**  
**Astrolab**

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

TITLE	<b>CABLE ASS'Y, 2.9mm (SMK) PLUG TO 2.9mm (SMK) PLUG, mini141 TYPE</b>		
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDS. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.	SCALE	CODE IDENT.	DWG NO.
	1:1	16301	mini141 K-XX
REV.	DESCRIPTION		DATE
			09/24/13
	BY	APPROVED	
	EB		

P	ECN No. 15819	09/24/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED