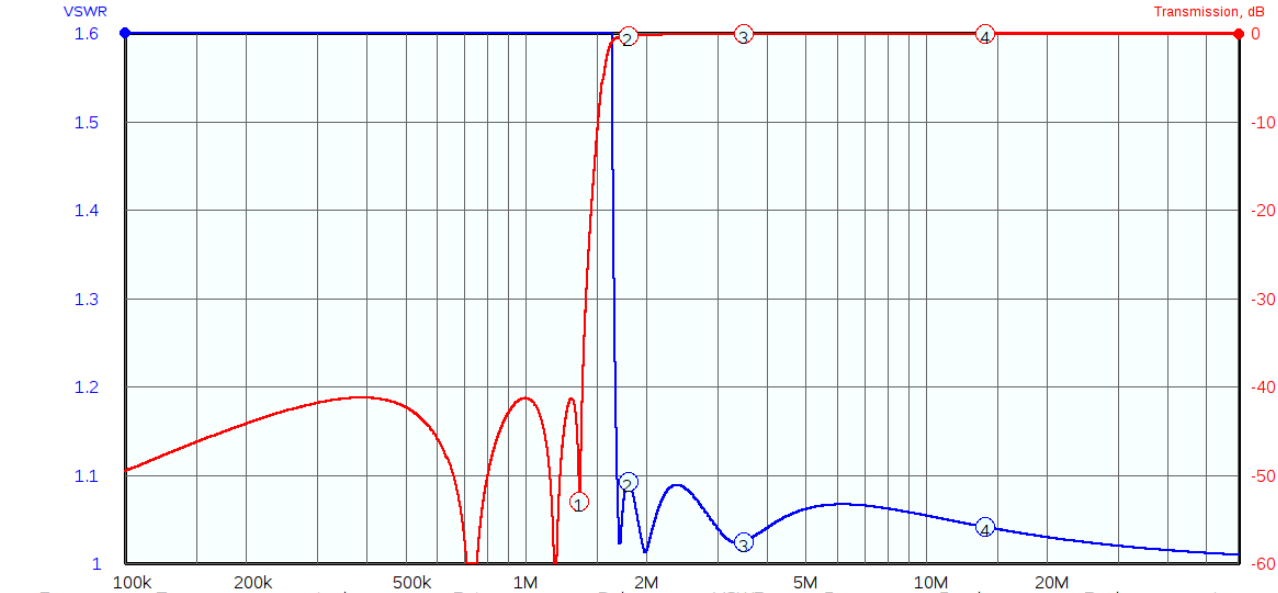
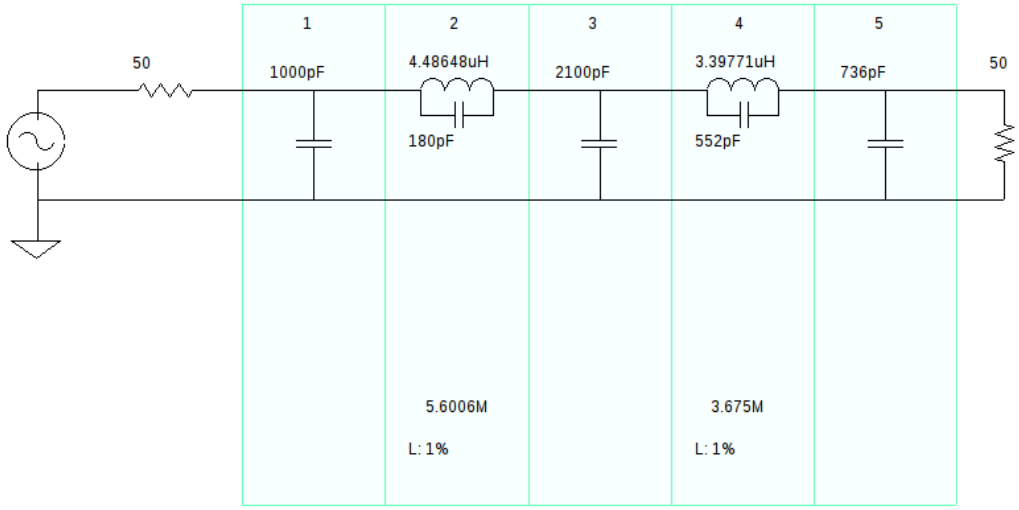
The following are a set of plots for suitable Hi pass filters for Hermes lite. All filters are 5 pole Cauer and designed with a maximum of 2 E12 caps in parallel but in most cases will be a single capacitor.

160 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.359M	-52.929	-7.5424	-0.29905	-14.57u	58.096	3.3033	-74.835	0.86415	-3.1882
2	1.8M	-0.29018	-137	-27.114	751.7n	1.0922	46.716	3.2214	46.642	2.6252
3	3.5M	-0.0342	87.451	-38.288	79.55n	1.0247	50.501	-1.2734	50.488	-1.1223
4	14M	-0.00477	20.627	-33.778	4.147n	1.0418	50.664	-2.2202	50.626	-1.9628



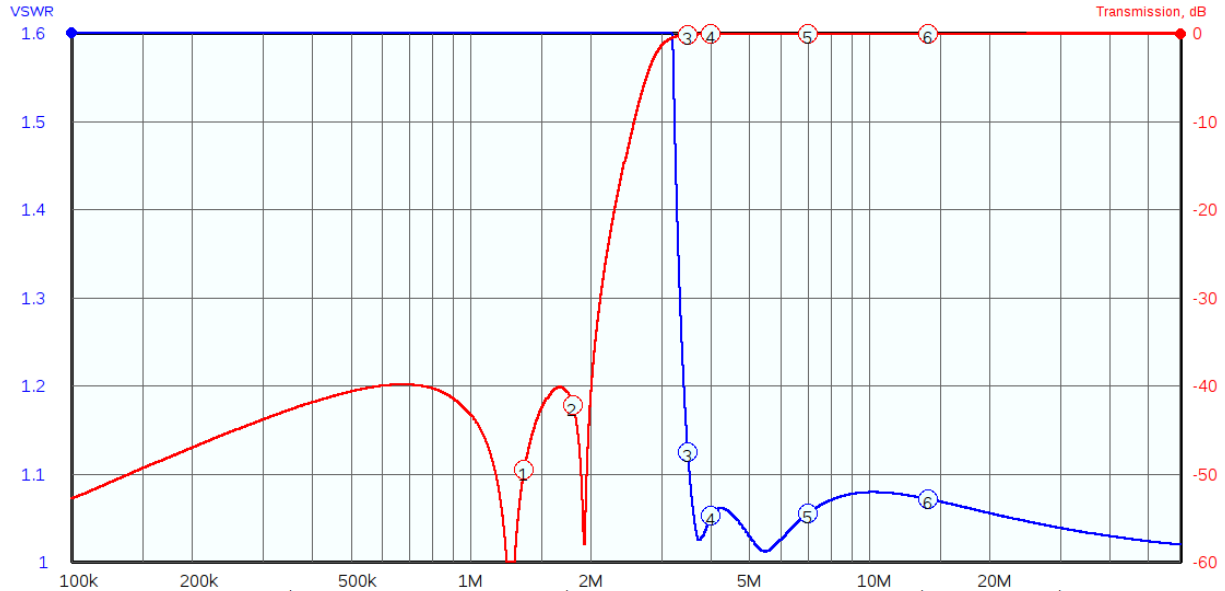
Design data:
Bandwidth: 2.04M
Family: Manual entry

Q values:
Inductors: 120
Capacitors: 1000

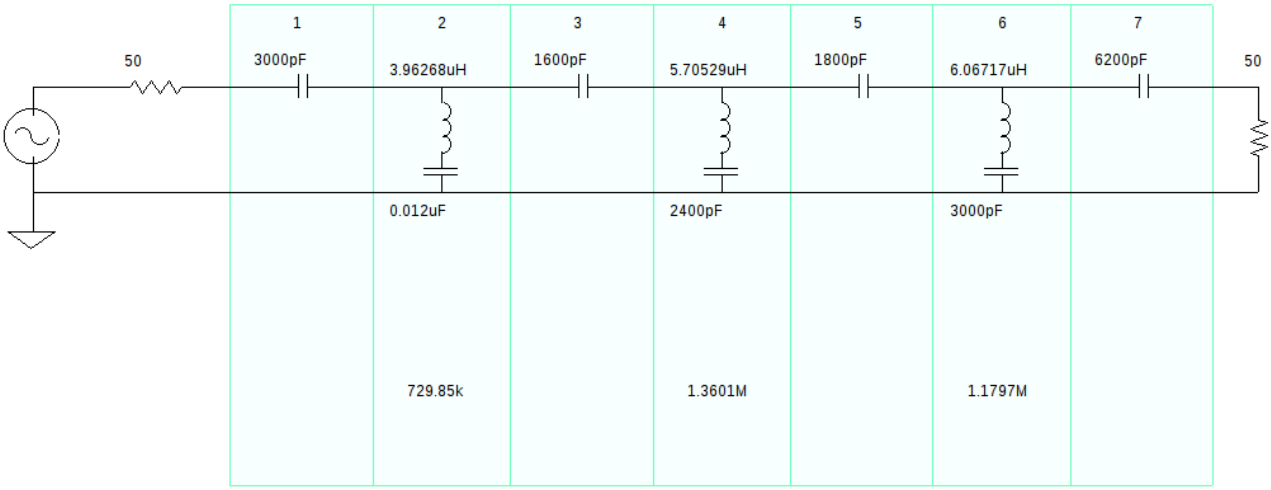
Maximum / minimum ratios:
Capacitors: 11.667
Inductors: 1.3204

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B

80 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.36M	-49.564	-163.09	-0.04232	-53.4n	410.49	75.531	-89.697	0.39977	-75.53
2	1.8M	-42.236	-179.6	-0.08085	50.49n	214.87	46.541	-89.465	0.4343	-46.539
3	3.5M	-0.17138	157.04	-24.609	206.9n	1.125	50.819	6.6685	50.476	5.9014
4	4M	-0.09726	128.8	-31.851	123.9n	1.0524	47.582	-0.71474	47.578	-0.59355
5	7M	-0.02752	66.312	-31.382	28.8n	1.0554	52.676	-0.79537	52.671	-0.73122
6	14M	-0.01194	32.175	-29.196	6.543n	1.0719	51.991	-3.2851	51.906	-2.9793



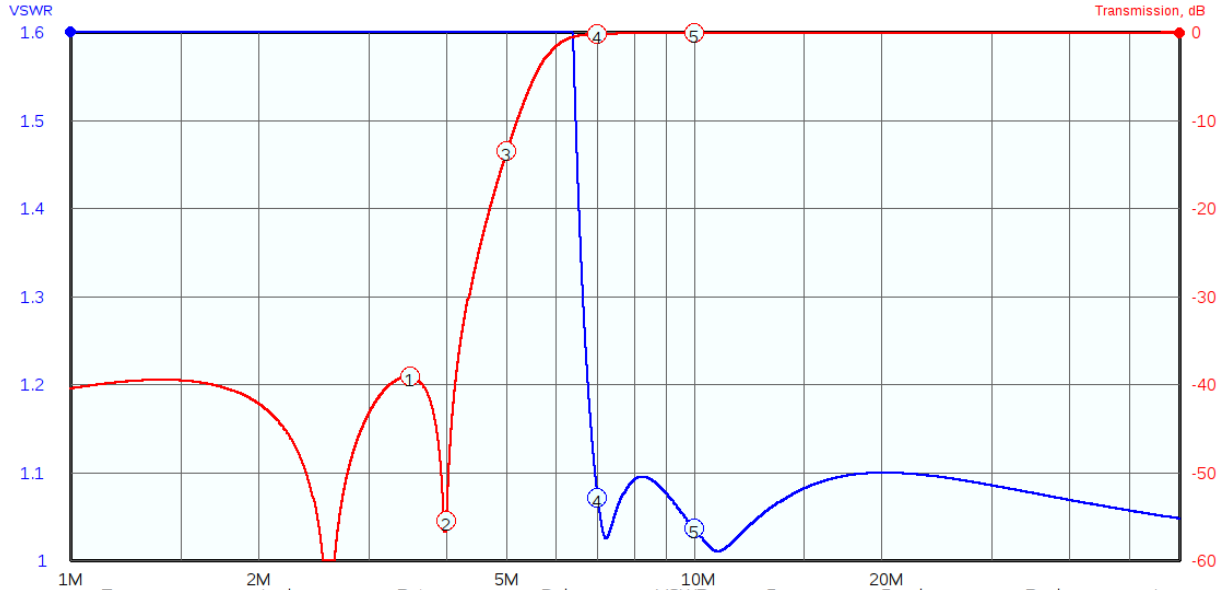
Design data:
Bandwidth: 1.7M
Family: Manual entry

Q values:
Inductors: 140
Capacitors: 1000

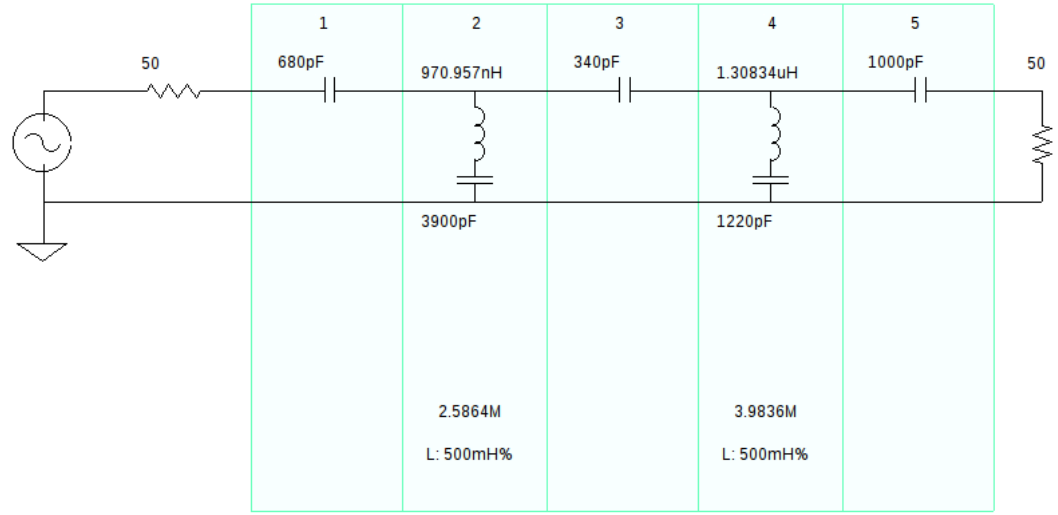
Maximum / minimum ratios:
Capacitors: 7.5
Inductors: 1.5311

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B

40 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	3.5M	-39.019	-174.37	-0.06614	64.32n	262.66	56.469	-89.561	0.43315	-56.467
2	4M	-55.473	-72.154	-0.09551	-4.947u	181.9	42.35	-89.361	0.47208	-42.348
3	5M	-13.467	-62.314	-0.44552	170.2n	39.001	15.578	-84.823	1.4056	-15.515
4	7M	-0.16915	160.03	-29.242	107.3n	1.0715	49.336	3.8776	49.223	3.3363
5	10M	-0.05445	98.358	-34.914	33.05n	1.0366	48.401	-0.87527	48.395	-0.73935



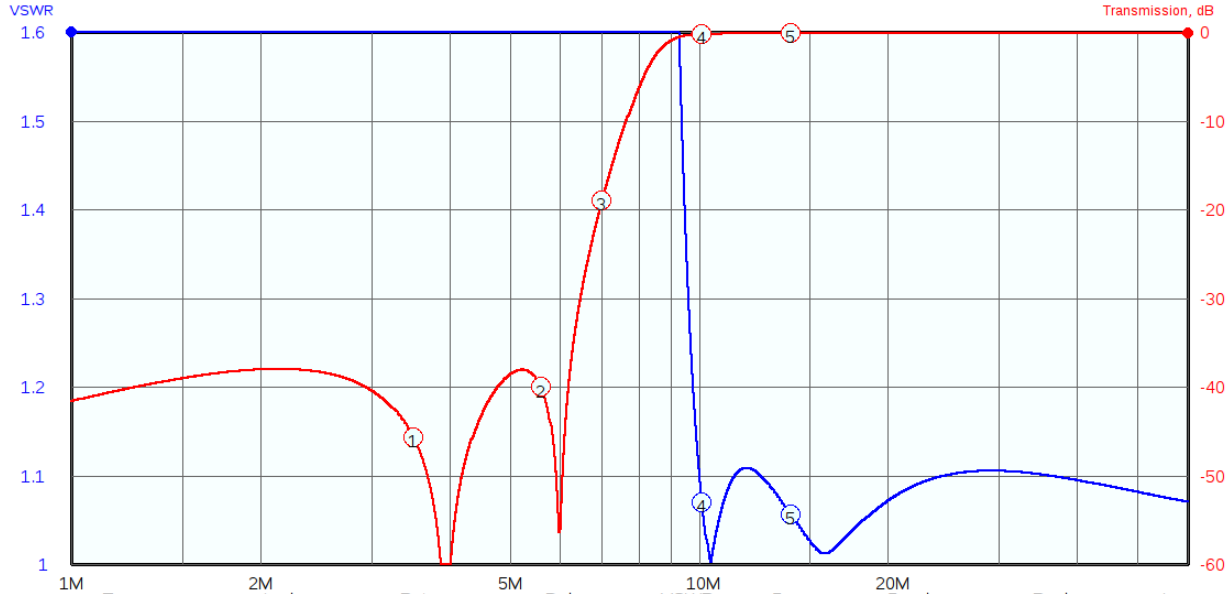
Design data:
Bandwidth: 6.9M
Family: Manual entry

Q values:
Inductors: 140
Capacitors: 1000

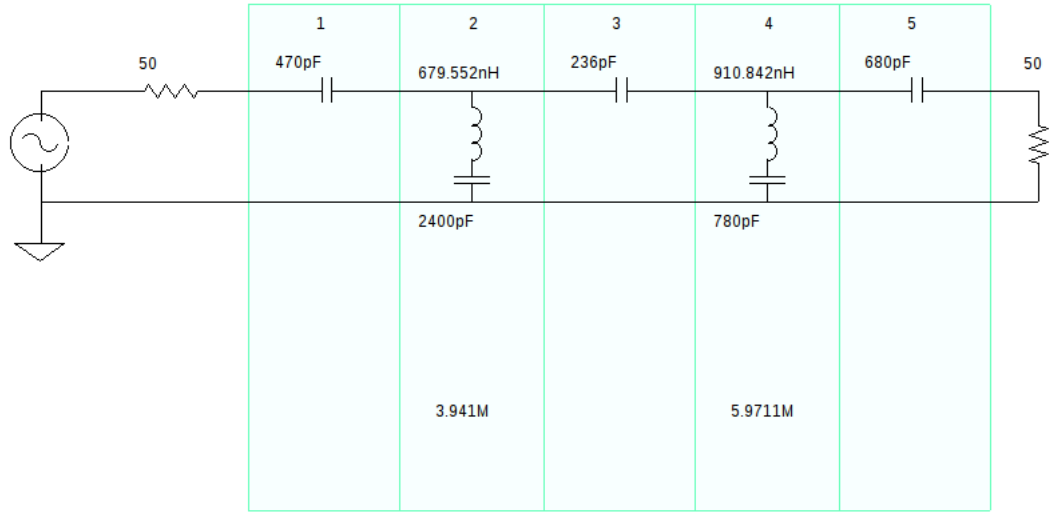
Maximum / minimum ratios:
Capacitors: 11.471
Inductors: 1.3475

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B

30-20 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	3.5M	-45.627	41.183	-0.0269	18.36n	645.68	100.68	-89.777	0.39144	-100.68
2	5.6M	-39.985	179.04	-0.07953	23.34n	218.43	47.109	-89.474	0.43211	-47.107
3	7M	-18.887	-48.509	-0.23868	96.55n	72.786	21.515	-87.832	0.81398	-21.5
4	10.1M	-0.16921	162.32	-29.418	78.58n	1.07	50.834	3.7558	50.724	3.3298
5	14M	-0.05834	102.44	-31.197	25.23n	1.0567	47.619	-1.4682	47.603	-1.2201



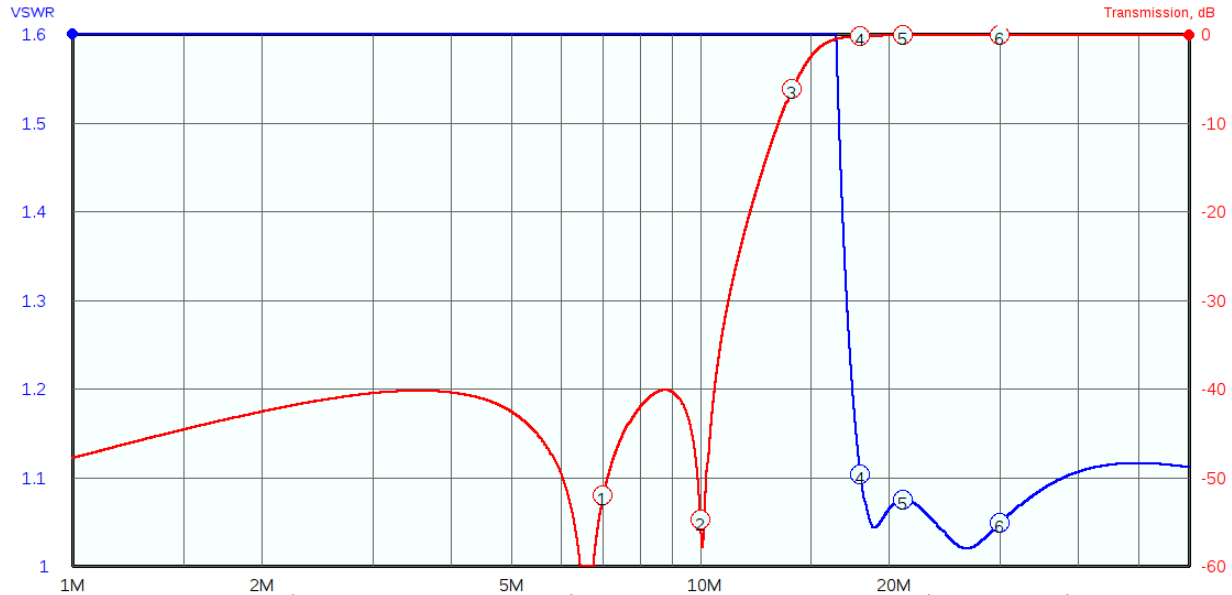
Design data:
Bandwidth: 10M
Family: Manual entry

Q values:
Inductors: 150
Capacitors: 1000

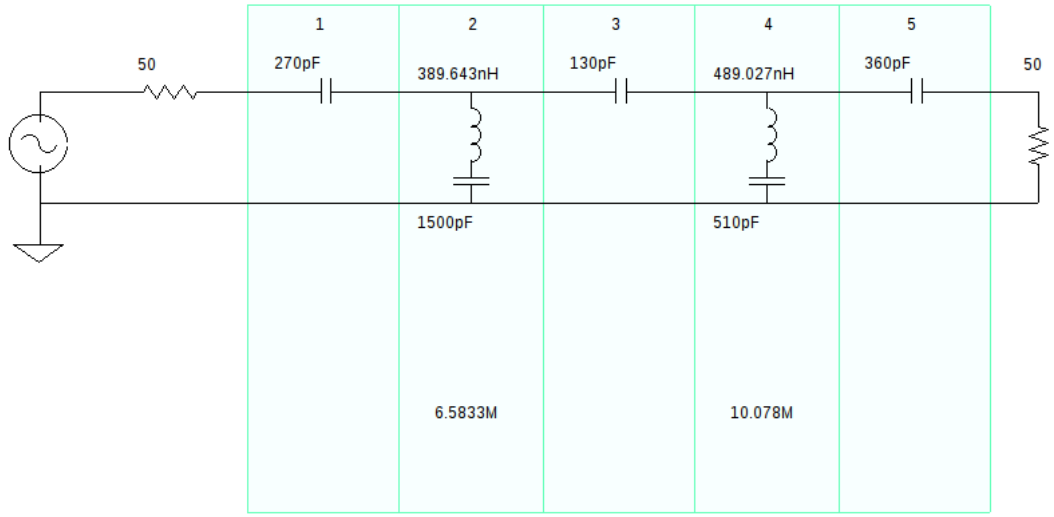
Maximum / minimum ratios:
Capacitors: 10.169
Inductors: 1.3404

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B

17-15 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	7M	-51.999	-161.31	-0.03963	-37.47n	438.38	82.21	-89.706	0.4224	-82.209
2	10M	-54.774	-147.98	-0.09578	-776.6n	181.37	43.314	-89.362	0.48255	-43.311
3	14M	-6.151	-94.964	-1.7001	89.26n	10.251	5.2759	22.183	4.8854	1.992
4	18M	-0.17882	161.04	-26.1	41.67n	1.1043	53.738	3.8954	53.614	3.6506
5	21M	-0.09915	128.14	-28.816	23.12n	1.0752	48.59	-3.8145	48.482	-3.2325
6	30M	-0.04014	82.813	-32.478	8.764n	1.0487	52.201	-1.1537	52.19	-1.051



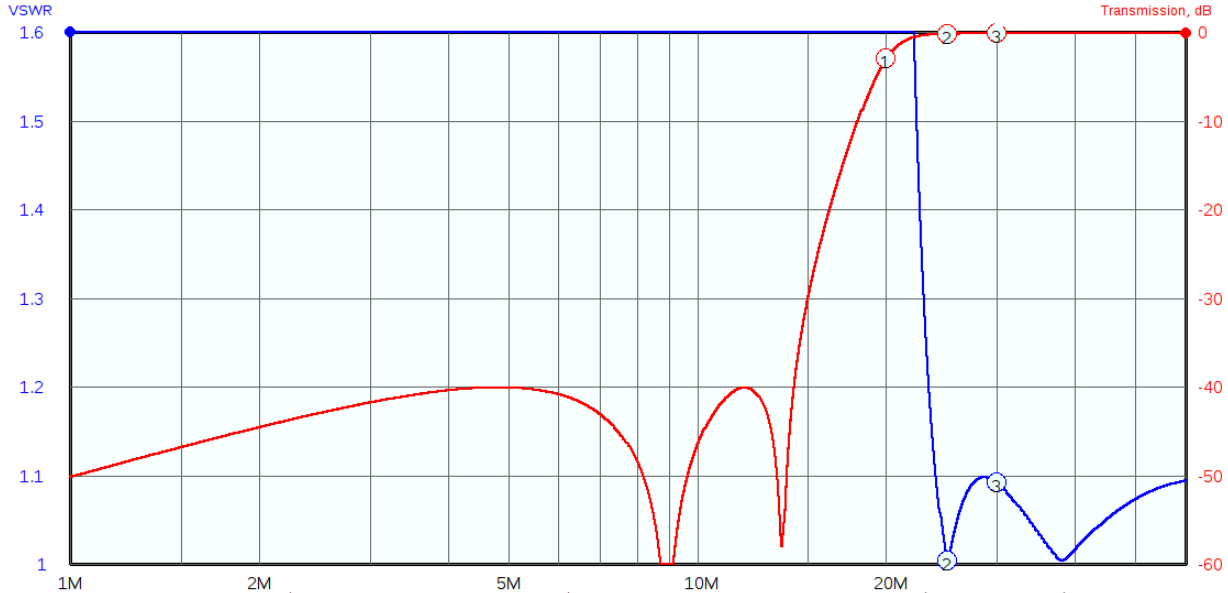
Design data:
Bandwidth: 18.06M
Family: Manual entry

Q values:
Inductors: 140
Capacitors: 1000

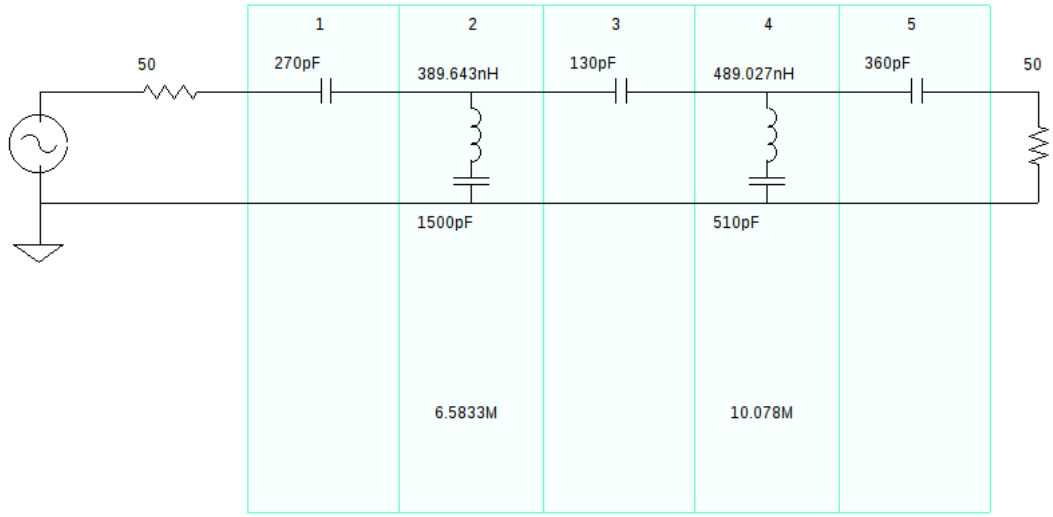
Maximum / minimum ratios:
Capacitors: 11.538
Inductors: 1.2551

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B

12-10 Metre Plot and schematic follow



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	20M	-2.9146	-121.93	-3.9346	70.44n	4.4903	16.855	45.498	11.814	12.022
2	25M	-0.14465	153.69	-53.226	27.21n	1.0044	49.794	0.08085	49.794	0.07026
3	30M	-0.08663	118.82	-27.049	14.35n	1.093	46.369	-2.6949	46.318	-2.1802



Design data:
Bandwidth: 18.06M
Family: Manual entry

Q values:
Inductors: 140
Capacitors: 1000

Maximum / minimum ratios:
Capacitors: 11.538
Inductors: 1.2551

Unbalanced preview
Normal - unbalanced
Balanced - A
Balanced - B