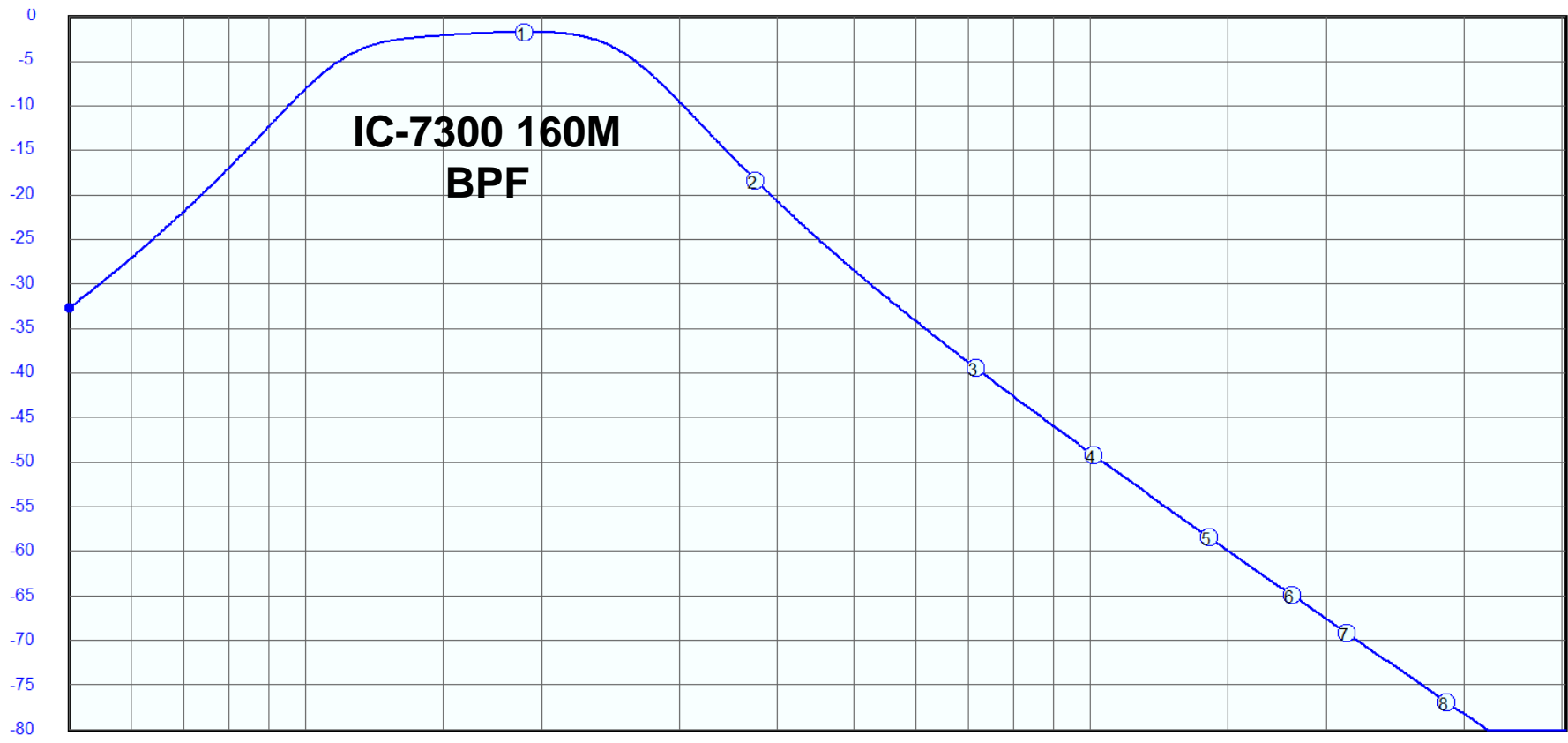
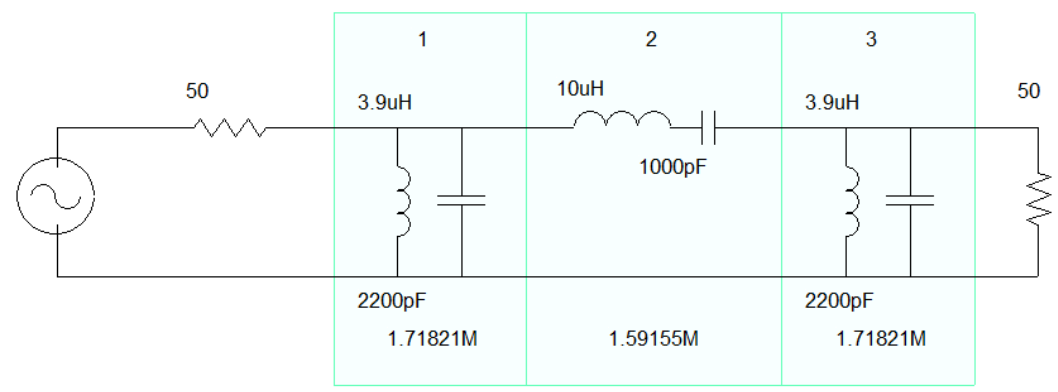


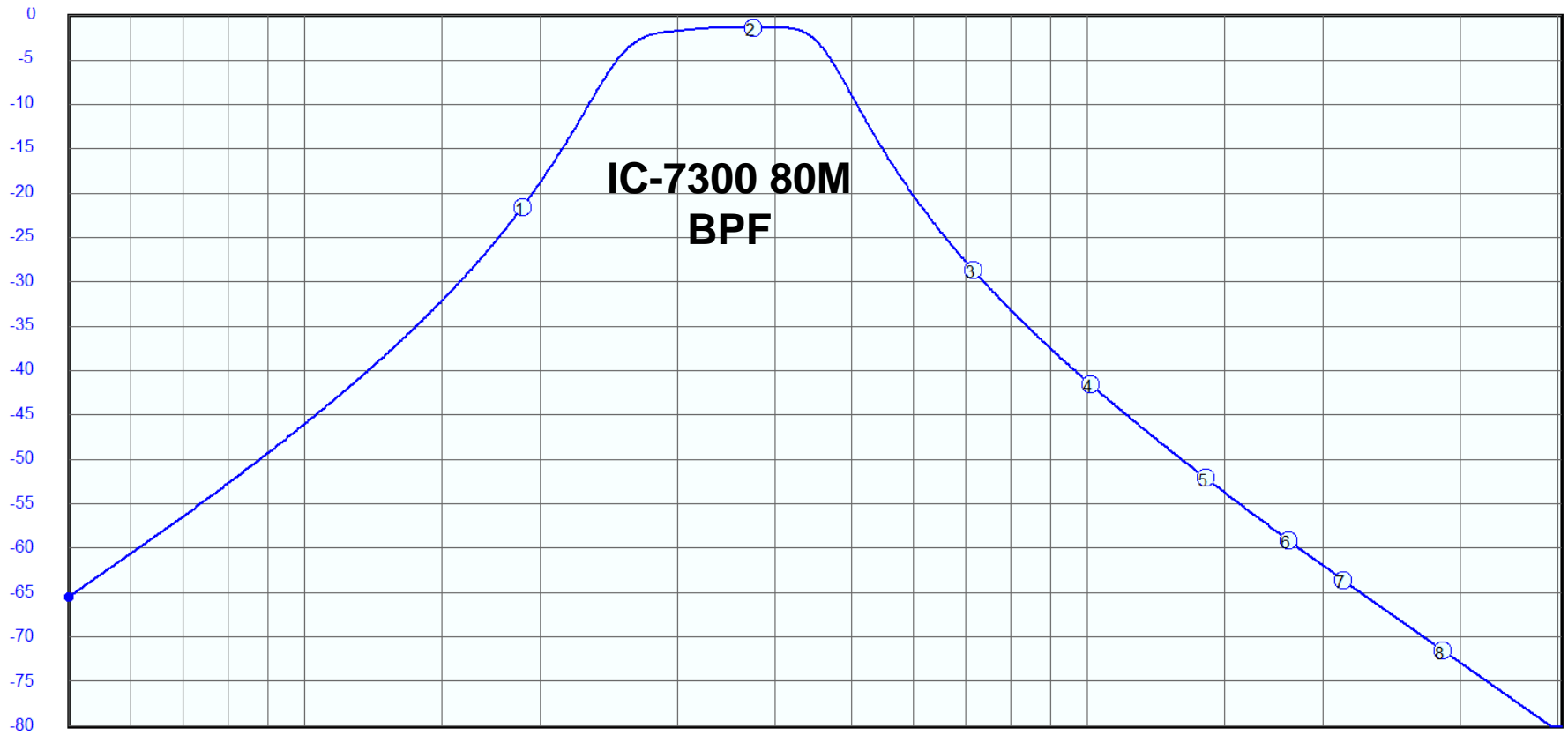
Transmission, dB



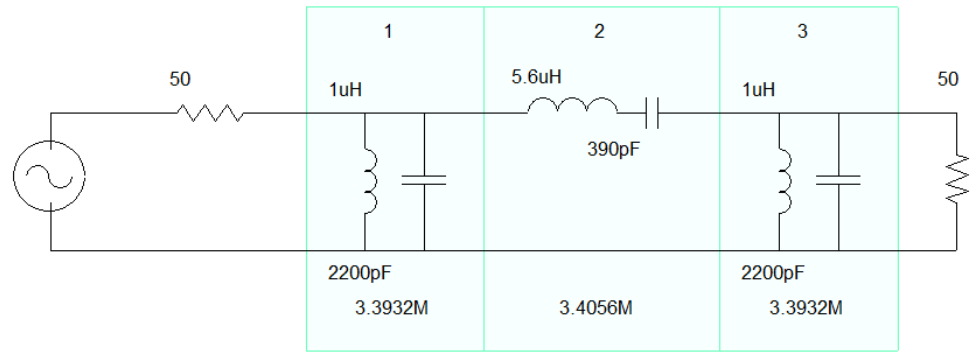
	500k	1M	2M	5M	10M	20M				
Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:	
1	1.9M	-1.7112	-34.749	-19.519	383.8n	1.2364	58.489	8.1291	57.901	8.2706
2	3.75M	-18.299	153.72	-0.23006	82.49n	75.515	28.33	-88.231	0.87453	-28.316
3	7.15M	-39.306	116.4	-0.00951	11.93n	>1000	11.021	-89.851	0.02869	-11.021
4	10.1M	-49.063	107.99	-0.00299	5.337n	>1000	7.4661	-89.932	0.0088	-7.4661
5	14.175M	-58.263	102.6	-0.00132	2.563n	>1000	5.2105	-89.958	0.00384	-5.2105
6	18.1M	-64.778	99.805	-0.00086	1.538n	>1000	4.0477	-89.965	0.00248	-4.0477
7	21.25M	-69.022	98.333	-0.00068	1.105n	>1000	3.4357	-89.967	0.00196	-3.4357
8	28.5M	-76.745	96.205	-0.00047	607.5p	>1000	2.5513	-89.97	0.00135	-2.5513



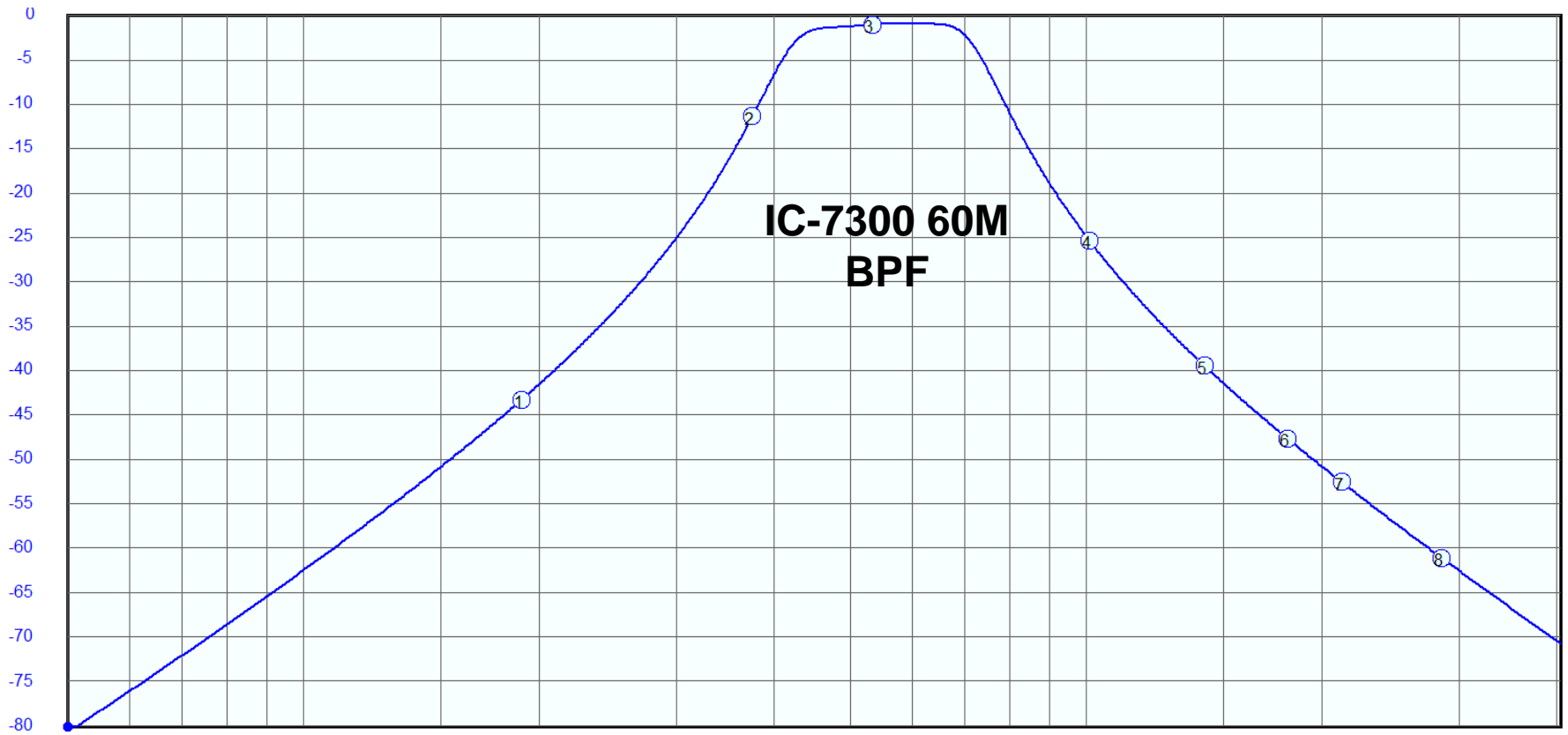
Transmission, dB



	500k	1M	2M	5M	10M	20M					
Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:		
1	1.9M	-21.525	-149.01	-0.87006	150.3n	19.983	19.967	81.666	2.8939	19.756	
2	3.75M	-1.3663	-39.784	-15.512	300.6n	1.4028	40.33	-14.706	39.009	-10.238	
3	7.15M	-28.563	123.97	-0.04924	23.93n	352.8	14.061	-89.377	0.15293	-14.061	
4	10.1M	-41.43	110.13	-0.00868	7.365n	>1000	8.2916	-89.823	0.02568	-8.2916	
5	14.175M	-51.965	103.3	-0.00251	3.006n	>1000	5.4776	-89.923	0.00732	-5.4776	
6	18.1M	-58.98	100.13	-0.00128	1.695n	>1000	4.1707	-89.949	0.00371	-4.1707	
7	21.225M	-63.405	98.542	-0.0009	1.189n	>1000	3.5148	-89.958	0.0026	-3.5148	
8	28.5M	-71.406	96.286	-0.00054	631.7p	>1000	2.5816	-89.966	0.00155	-2.5816	

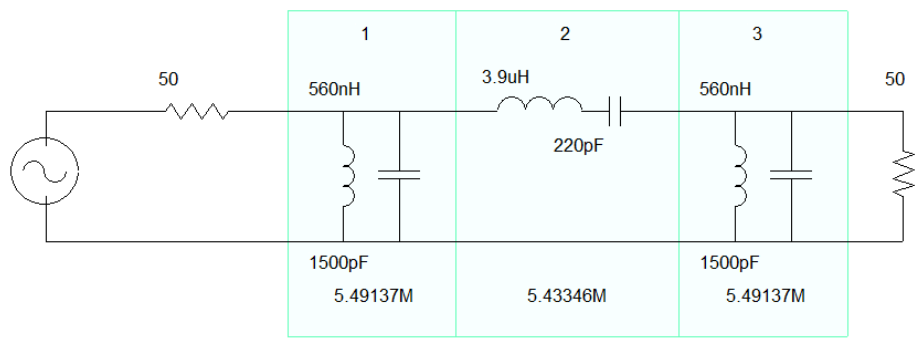


Transmission, dB

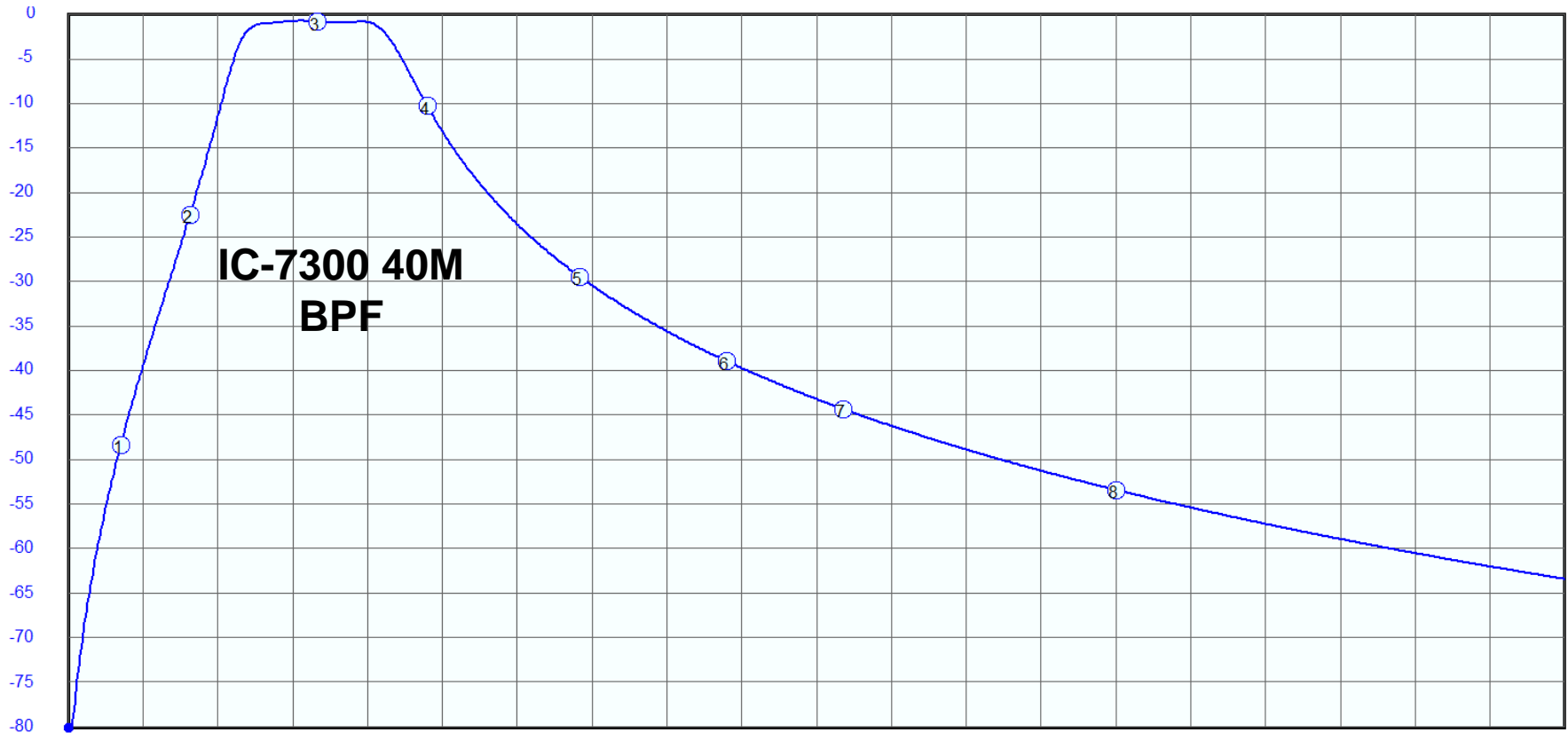


**IC-7300 60M
BPF**

	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.9M	-43.212	-118.62	-0.2434	24.27n	71.375	7.7982	84.721	0.71743	7.7651
2	3.75M	-11.34	-171.05	-1.445	215n	12.05	34.488	79.843	6.0818	33.948
3	5.33M	-1.0169	11.423	-20.38	230n	1.2117	45.266	9.3536	44.664	7.3569
4	10.1M	-25.258	128.58	-0.06458	22.83n	269.02	16.417	-89.281	0.2059	-16.416
5	14.175M	-39.361	111.64	-0.00949	6.102n	>1000	9.0847	-89.822	0.02823	-9.0846
6	18.1M	-47.548	105.66	-0.00359	2.994n	>1000	6.5629	-89.908	0.01051	-6.5629
7	21.225M	-52.443	102.93	-0.00215	1.984n	>1000	5.418	-89.934	0.00626	-5.4179
8	28.5M	-60.98	99.295	-0.00102	987.4p	>1000	3.8889	-89.956	0.00296	-3.8889



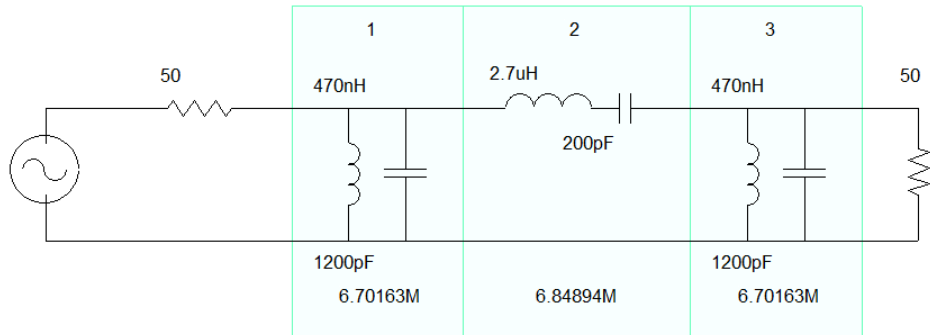
Transmission, dB



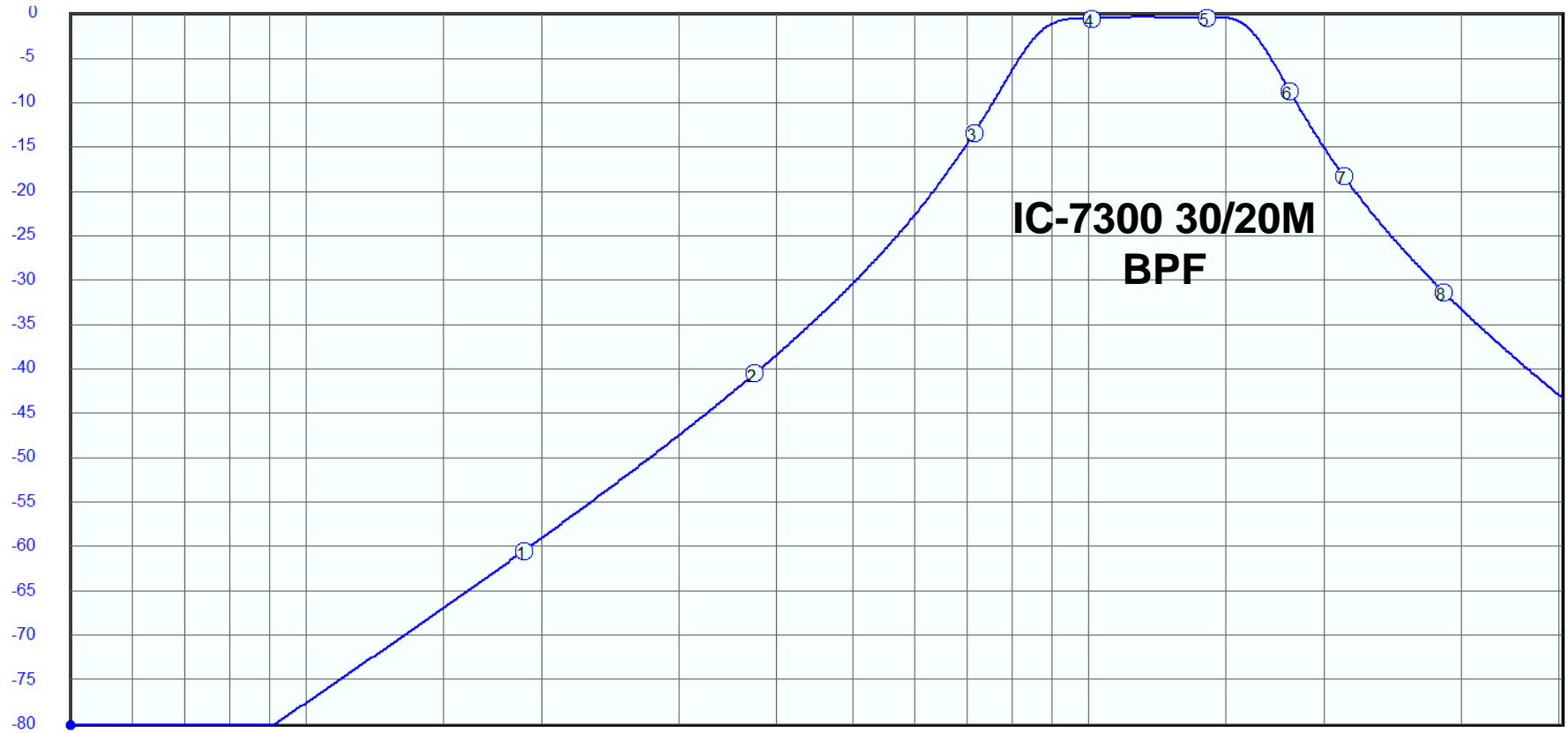
**IC-7300 40M
BPF**

Freq:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:	
1	1.9M	-48.273	-114.38	-0.18556	13.33n	93.622	6.2196	84.998	0.54226	6.1959
2	3.75M	-22.467	-138.14	-0.4175	68.07n	41.617	18.307	85.734	1.3617	18.256
3	7.15M	-0.84517	-23.876	-14.01	158.8n	1.4978	41.475	-19.985	38.978	-14.175
4	10.1M	-10.282	162.45	-0.72878	83.3n	23.851	33.912	-84.831	3.0553	-33.774
5	14.175M	-29.405	120.38	-0.02649	10.65n	655.89	12.951	-89.64	0.08135	-12.95
6	18.1M	-38.894	110.74	-0.0074	4.466n	>1000	8.7842	-89.857	0.02196	-8.7842
7	21.225M	-44.271	106.79	-0.00391	2.797n	>1000	7.0966	-89.907	0.01148	-7.0966
8	28.5M	-53.328	101.8	-0.00158	1.309n	>1000	4.9805	-89.947	0.00459	-4.9805

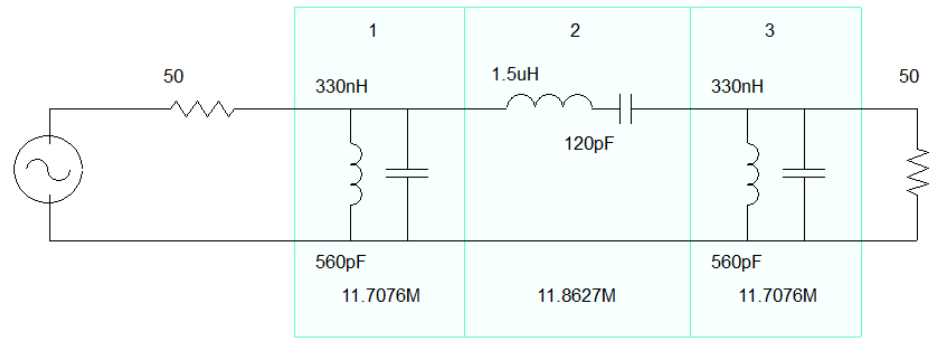
Freq:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:	
1	1.9M	-48.273	-114.38	-0.18556	13.33n	93.622	6.2196	84.998	0.54226	6.1959
2	3.75M	-22.467	-138.14	-0.4175	68.07n	41.617	18.307	85.734	1.3617	18.256
3	7.15M	-0.84517	-23.876	-14.01	158.8n	1.4978	41.475	-19.985	38.978	-14.175
4	10.1M	-10.282	162.45	-0.72878	83.3n	23.851	33.912	-84.831	3.0553	-33.774
5	14.175M	-29.405	120.38	-0.02649	10.65n	655.89	12.951	-89.64	0.08135	-12.95
6	18.1M	-38.894	110.74	-0.0074	4.466n	>1000	8.7842	-89.857	0.02196	-8.7842
7	21.225M	-44.271	106.79	-0.00391	2.797n	>1000	7.0966	-89.907	0.01148	-7.0966
8	28.5M	-53.328	101.8	-0.00158	1.309n	>1000	4.9805	-89.947	0.00459	-4.9805



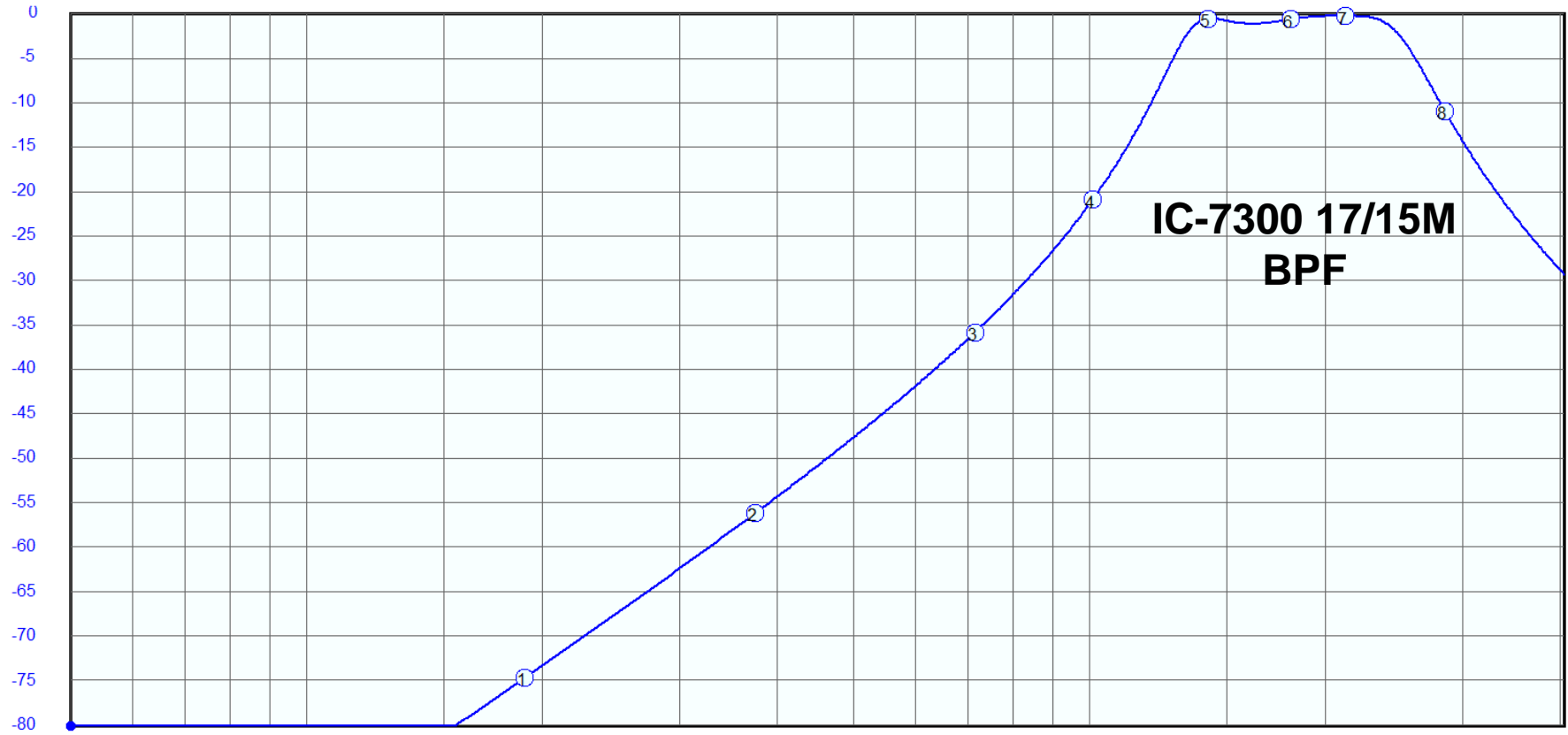
Transmission, dB



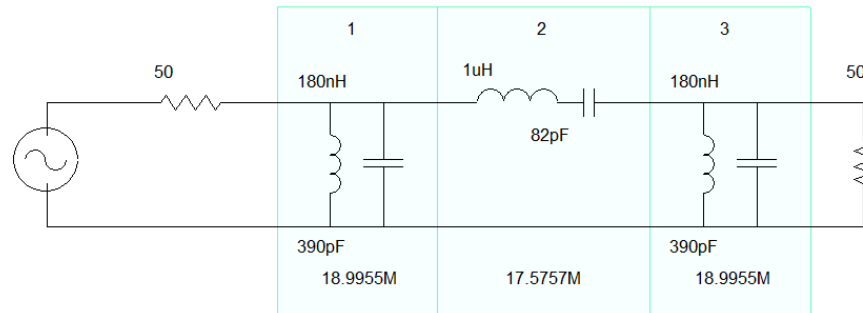
	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.9M	-60.343	-108.73	-0.11465	1.809n	151.52	4.0831	85.334	0.33217	4.0696
2	3.75M	-40.417	-115.61	-0.13875	16.38n	125.21	8.9202	87.353	0.41203	8.9107
3	7.15M	-13.372	-158.12	-0.60788	73.19n	28.589	30.849	85.516	2.4117	30.755
4	10.1M	-0.51728	56.237	-19.263	108.8n	1.2443	41.727	6.9776	41.418	5.0691
5	14.175M	-0.43286	-68.905	-17.359	81.26n	1.3136	39.337	-7.3501	39.013	-5.0324
6	18.1M	-8.6513	170.78	-0.83161	47.59n	20.905	40.903	-84.412	3.9832	-40.709
7	21.225M	-18.241	140.38	-0.11116	15.79n	156.29	22.869	-89.031	0.38684	-22.866
8	28.5M	-31.289	119.15	-0.01231	4.376n	>1000	12.72	-89.83	0.03773	-12.72



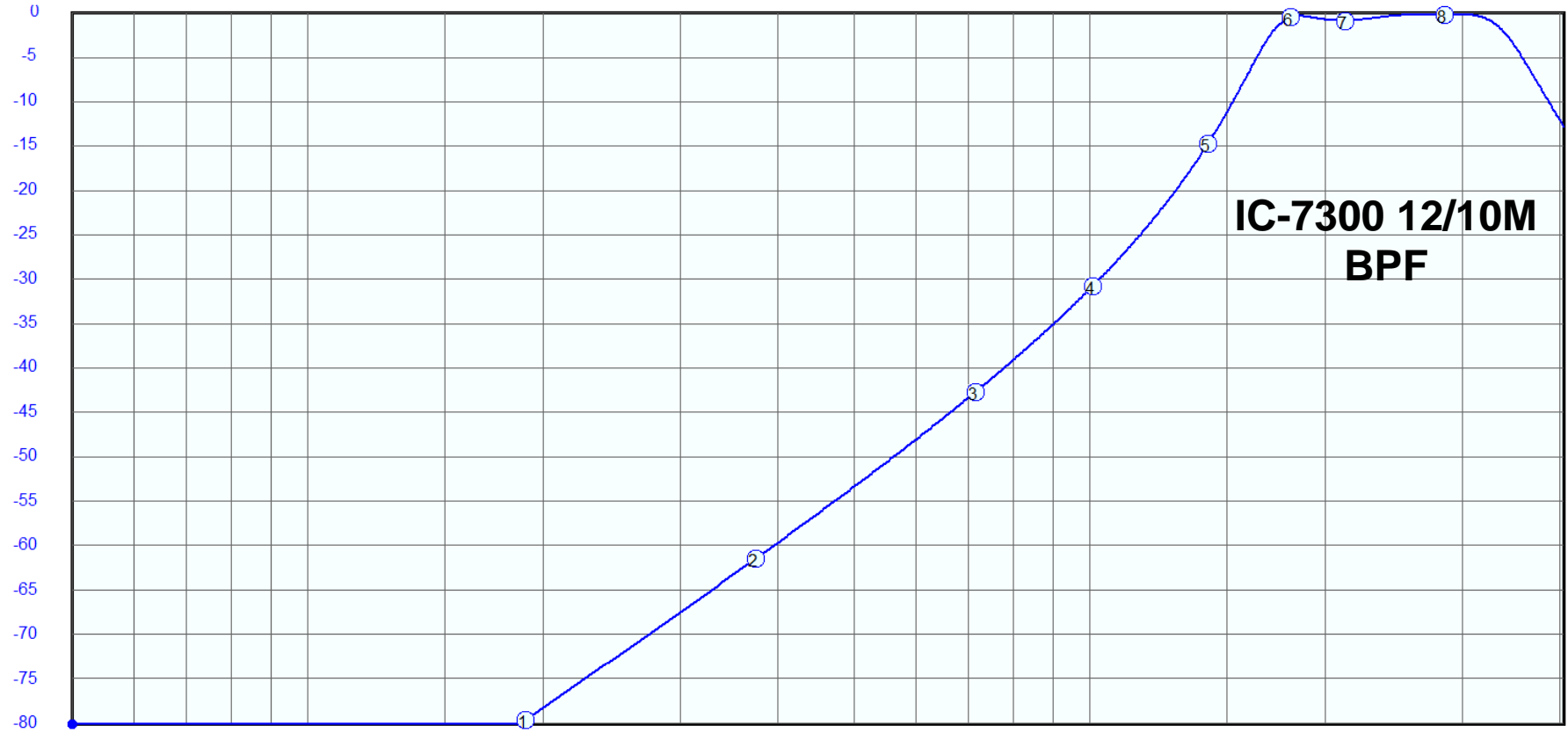
Transmission, dB



	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.9M	-74.564	-104.19	-0.06029	-5.525n	288.13	2.182	85.43	0.17386	2.1751
2	3.75M	-56.006	-105.1	-0.06455	5.102n	269.1	4.4568	87.592	0.18728	4.4529
3	7.15M	-35.756	-115.41	-0.08649	11.74n	200.86	9.8496	88.496	0.25858	9.8462
4	10.1M	-20.88	-133.62	-0.18398	25.42n	94.423	18.489	88.134	0.60187	18.479
5	14.175M	-0.54592	108.74	-28.217	126.8n	1.0808	49.599	4.4235	49.451	3.8254
6	18.1M	-0.61819	8.83	-11.275	57.72n	1.7513	45.333	30.076	39.229	22.719
7	21.225M	-0.25027	-55.525	-37.36	56.77n	1.0275	51.289	0.53392	51.287	0.47794
8	28.5M	-10.961	162.39	-0.4631	25.59n	37.521	35.704	-86.772	2.0107	-35.648

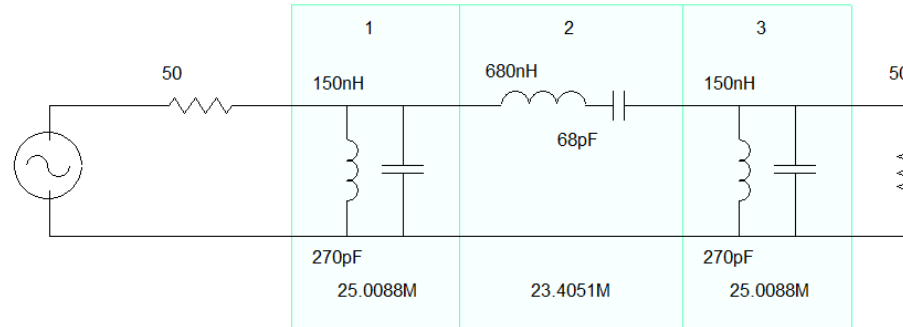


Transmission, dB



**IC-7300 12/10M
BPF**

	Freq.:	Trans.:	Angle:	Return:	Delay:	VSWR:	Zmag.:	Zangle:	Real:	Imag.:
1	1.9M	-79.472	-103.27	-0.04977	-6.952n	349.01	1.8094	85.453	0.14345	1.8037
2	3.75M	-61.291	-103.1	-0.05178	3.233n	335.49	3.6402	87.641	0.14983	3.6372
3	7.15M	-42.594	-109.92	-0.06054	7.367n	286.96	7.5309	88.644	0.17819	7.5288
4	10.1M	-30.691	-119.64	-0.08117	11.29n	214.01	12.152	88.833	0.24743	12.149
5	14.175M	-14.723	-146.14	-0.31688	29.81n	54.827	25.304	87.406	1.1452	25.278
6	18.1M	-0.49636	116.25	-17.611	94.95n	1.3033	61.21	9.6848	60.337	10.297
7	21.225M	-0.8611	47.677	-8.6544	42.91n	2.1707	29.491	29.718	25.612	14.62
8	28.5M	-0.17605	-56.035	-28.752	38.01n	1.0758	47.214	-2.5908	47.165	-2.1342



OVF Trip Points

RECEIVER BAND	OVF TRIP 160M	OVF TRIP 80M	OVF TRIP 60M	OVF TRIP 40M	OVF TRIP 30M	OVF TRIP 20M	OVF TRIP 17M	OVF TRIP 15M	OVF TRIP 12M	OVF TRIP 10M
160M	- 8 dbm	+7 dbm	+19 dbm	+30 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm
80M	+15 dbm	-9 dbm	+3 dbm	+19 dbm	+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm
60M	>+31 dbm	0 dbm	-9 dbm	-6 dbm	+16 dbm	+28 dbm	>+31 dbm	>+31 dbm	>+31 dbm	>+31 dbm
40M	>+31 dbm	+10 dbm	-9 dbm	-9 dbm	+3 dbm	+18 dbm	+30 dbm	>+31 dbm	>+31 dbm	>+31 dbm
30M	>+31 dbm	+25 dbm	+16 dbm	+1 dbm	-10 dbm	-10 dbm	0 dbm	+11 dbm	+18 dbm	+24 dbm
20M	>+31 dbm	+25 dbm	+16 dbm	+2 dbm	-10 dbm	-10 dbm	0 dbm	+12 dbm	+18 dbm	+23 dbm
17M	>+31 dbm	>+31 dbm	+30 dbm	+23 dbm	+8 dbm	-9 dbm	-9 dbm	-9 dbm	-5 dbm	+5 dbm
15M	>+31 dbm	>+31 dbm	+30 dbm	+23 dbm	+8 dbm	-9 dbm	-9 dbm	-9 dbm	-5 dbm	+4 dbm
12M	>+31 dbm	>+31 dbm	>+31 dbm	+29 dbm	+16 dbm	+2 dbm	-9 dbm	-9 dbm	-9 dbm	-8 dbm
10M	>+31 dbm	>+31 dbm	>+31 dbm	+29 dbm	+16 dbm	+2 dbm	-9 dbm	-9 dbm	-9 dbm	-8 dbm
NOTES:										
Inband trip point measured 100 KHz way from receiver frequency										
Signal generator = HP 8647D										

BPF Insertion Loss

RECEIVER BAND	BPF 160M	BPF 80M	BPF 60M	BPF 40M	BPF 30M	BPF 20M	BPF 17M	BPF 15M	BPF 12M	BPF 10M
160M	1.7 db	15 db	27 db	38 db	46 db	56 db	62 db	67 db	71 db	74 db
80M	24 db	1.4 db	12 db	28 db	40 db	50 db	57 db	61 db	65 db	69 db
60M	41 db	9 db	1.2 db	15 db	25db	37 db	45 db	50 db	55 db	59 db
40M	46 db	19 db	0.9 db	0.9 db	12 db	27 db	39 db	42 db	47 db	51 db
30M	58 db	35 db	26 db	11 db	0.4 db	0.4 db	10 db	21 db	28 db	34 db
20M	58 db	35 db	26 db	11 db	0.4 db	0.4 db	10 db	21 db	28 db	34 db
17M	72 db	54 db	39 db	32 db	17 db	0.5 db	0.5 db	0.5 db	4 db	14 db
15M	72 db	54 db	39 db	32 db	17 db	0.5 db	0.5 db	0.5 db	4 db	14 db
12M	77 db	59 db	49 db	38 db	25 db	11 db	0.5 db	0.9 db	0.2 db	0.2 db
10M	77 db	59 db	49 db	37 db	24 db	10 db	0.5 db	0.9 db	0.2 db	0.2 db
NOTES:										
Red text is insertion loss from Elsie simulation minus 2 db										
Green text is insertion loss from Elsie simulation										
Black text is actual measured insertion using OVF trip points										