

# MMIC Reflectionless High Pass Filter

# XHF-292M+

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-55°C	@25°C	@+105°C	@-55°C	@+25°C	@+105°C	@-55°C	@+25°C	@+105°C
10	59.91	57.49	55.60	20.60	18.14	16.59	19.08	17.20	15.71
50	54.38	51.60	49.45	20.18	18.04	16.66	18.73	17.14	15.78
100	43.88	43.65	43.23	19.60	18.02	16.81	18.22	17.04	15.90
200	33.97	34.28	34.45	19.22	17.66	16.39	17.91	16.69	15.59
250	31.24	31.65	31.96	18.88	17.35	16.15	17.65	16.49	15.38
300	29.38	29.87	30.25	18.31	17.10	16.01	17.21	16.26	15.27
400	27.54	28.16	28.69	17.38	16.58	15.80	16.47	15.91	15.22
450	27.40	28.07	28.65	17.14	16.43	15.75	16.35	15.82	15.28
500	27.76	28.50	29.12	16.99	16.37	15.73	16.32	15.82	15.32
600	30.11	30.94	31.65	17.04	16.57	15.91	16.49	16.15	15.64
700	35.38	36.21	36.88	17.42	17.26	16.87	17.12	17.03	16.98
1000	41.85	41.10	40.46	23.89	24.20	23.90	26.29	26.31	26.10
1400	36.85	37.34	37.46	19.43	19.68	19.77	17.92	18.38	18.64
1500	44.05	42.55	41.15	18.36	18.54	18.51	17.39	17.73	17.71
1950	39.81	33.83	30.35	17.47	18.19	19.15	17.08	18.01	18.88
2400	2.43	2.94	3.37	30.34	32.18	37.81	28.48	30.45	33.32
2900	0.97	1.34	1.64	20.76	21.42	23.41	20.72	21.55	22.84
3500	0.55	0.90	1.18	19.80	18.93	20.02	19.56	19.01	19.44
4000	0.39	0.74	1.04	20.16	18.86	19.29	19.63	19.03	19.04
4500	0.29	0.64	0.98	20.94	19.72	18.58	20.78	19.97	18.56
5000	0.25	0.60	0.94	19.89	21.13	20.92	19.01	21.60	21.05
5500	0.21	0.54	0.87	19.73	24.27	28.16	19.72	24.91	28.30
6000	0.12	0.48	0.84	25.27	31.05	29.77	25.43	34.69	35.32
6500	0.08	0.47	0.85	26.81	24.99	23.15	27.54	25.34	21.60
7100	0.14	0.51	0.92	15.67	17.76	17.75	15.72	17.97	17.32
7500	0.19	0.56	1.00	13.82	15.01	14.55	13.62	15.26	14.56
8000	0.22	0.65	1.16	12.37	12.62	12.10	12.44	12.86	12.37
8700	0.17	0.79	1.57	13.13	10.44	8.39	13.16	10.68	8.47
9000	0.19	0.86	1.66	12.30	9.74	8.07	12.50	9.97	8.14
9500	0.40	0.98	1.68	9.26	8.85	8.29	9.23	9.01	8.46
10000	0.68	1.12	1.75	7.45	8.10	8.17	7.69	8.22	8.10
10500	0.94	1.27	1.56	6.45	7.49	10.10	6.22	7.55	10.14
11000	1.33	1.45	1.71	5.13	6.89	9.05	5.33	6.90	8.94
11500	1.03	1.66	2.03	6.28	6.32	7.80	6.06	6.26	7.91
12000	1.15	1.89	2.34	5.68	5.73	6.68	5.76	5.66	6.93
12500	1.20	2.10	3.16	5.48	5.32	4.81	5.43	5.21	4.96
13000	1.45	2.23	3.13	4.68	5.05	5.16	5.00	4.98	5.25
13500	1.79	2.24	3.36	4.21	5.08	4.63	4.12	5.02	4.62
14000	1.76	2.11	2.99	4.14	5.48	5.76	4.50	5.63	6.32
14500	2.82	3.25	4.22	5.80	7.06	6.73	6.46	6.76	6.03
15000	2.11	2.03	2.62	3.88	5.90	7.36	3.95	5.97	7.77
15500	1.17	1.52	2.42	5.80	7.08	6.52	5.66	7.24	6.73
16000	0.64	1.22	1.79	7.88	8.43	12.37	7.74	8.68	12.98
16500	0.59	1.03	1.88	7.66	9.89	9.89	7.91	10.22	9.75
17000	0.06	0.93	1.66	14.37	11.24	15.72	16.02	11.64	14.58
17500	0.07	0.86	1.96	12.13	12.92	10.77	12.34	13.36	10.92
18000	0.02	0.82	1.74	16.33	15.11	15.18	16.94	15.90	17.43
18500	0.44	0.80	2.21	7.37	18.72	10.66	7.46	20.44	12.93
19000	0.16	0.81	1.85	14.29	21.15	19.35	14.38	55.80	23.62
19500	0.14	0.93	2.32	21.10	16.68	10.11	21.34	19.12	11.40
20000	0.45	1.17	2.68	11.94	11.94	9.67	12.36	12.84	9.91
20500	1.44	1.56	2.77	5.18	8.83	8.56	5.49	9.23	9.22
21000	1.68	2.08	3.14	4.73	6.63	10.55	5.05	6.93	9.52
21500	2.18	2.77	4.06	3.78	5.04	5.62	3.65	5.27	5.79
22000	2.51	3.45	4.72	3.47	4.10	5.73	3.41	4.26	5.95
22500	2.58	4.23	5.61	3.56	3.38	3.93	3.06	3.49	4.34
23000	2.99	5.04	6.30	3.17	2.81	3.92	3.09	2.94	4.06
23500	3.53	5.88	7.60	2.60	2.43	2.96	2.77	2.47	3.54
24000	4.97	6.74	8.97	1.71	2.06	2.66	1.45	2.11	2.14
24500	6.79	7.63	10.59	0.89	1.84	1.67	1.20	1.84	2.31
25000	8.90	8.59	11.04	0.30	1.66	2.75	0.26	1.67	2.14
25500	10.24	9.57	11.86	0.37	1.61	2.89	0.23	1.61	2.61
26000	11.18	10.84	12.72	0.19	1.66	3.26	0.03	1.72	2.71



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