

# Metal Shield High Pass Filter

# RHP-147+

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURN LOSS (dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
0.5	100.05	97.61	99.74	0.018	0.017	0.016	0.014	0.013	0.014
1	99.89	97.33	100.99	0.016	0.016	0.014	0.013	0.012	0.013
10	99.28	90.25	102.73	0.003	0.000	0.001	0.003	0.002	0.005
50	77.44	80.31	78.85	0.04	0.05	0.06	0.03	0.06	0.08
80	47.99	47.80	47.66	0.13	0.17	0.19	0.12	0.17	0.21
105	28.38	28.26	28.12	0.33	0.40	0.45	0.34	0.41	0.47
120	17.69	17.58	17.45	0.68	0.78	0.87	0.70	0.82	0.92
140	5.18	5.22	5.20	3.73	4.04	4.34	3.88	4.27	4.62
147	2.66	2.78	2.83	7.60	8.03	8.47	7.96	8.52	9.08
180	0.66	0.78	0.86	22.80	22.54	22.48	22.49	22.26	22.17
250	0.35	0.44	0.50	23.00	22.21	21.50	22.74	22.03	21.34
500	0.17	0.25	0.30	23.66	24.65	25.71	23.01	23.53	23.98
700	0.13	0.22	0.28	26.60	30.69	37.92	26.56	29.15	31.00
1000	0.12	0.25	0.33	30.74	36.47	29.89	31.89	49.99	30.93
2000	0.20	0.43	0.59	18.75	17.49	16.83	19.36	18.39	17.61
2500	0.27	0.54	0.72	16.40	15.80	15.90	16.49	16.09	16.07
3000	0.33	0.64	0.84	15.49	15.23	15.65	15.35	15.34	15.71
3400	0.52	0.87	1.11	14.20	14.43	14.99	15.50	16.16	17.08
3500	0.52	0.87	1.10	14.06	14.27	15.03	15.17	15.62	16.50
3600	0.46	0.80	1.03	13.94	14.57	15.37	14.16	15.12	16.13
3700	0.45	0.80	1.05	13.86	14.50	15.28	14.02	15.04	16.02
3800	0.47	0.83	1.08	13.67	14.43	15.17	13.83	14.96	16.06
4000	0.54	0.89	1.15	13.12	14.27	15.00	13.33	14.85	16.13
4200	0.55	0.93	1.23	13.31	13.99	14.45	13.63	14.65	15.45
4400	0.59	1.00	1.32	13.27	13.93	14.23	13.80	14.74	15.29
4500	0.61	1.04	1.37	13.51	14.04	14.35	13.87	14.74	15.39
4600	0.63	1.09	1.44	13.97	14.27	14.66	14.43	15.16	15.62
4700	0.75	1.20	1.60	14.73	14.78	14.88	15.02	15.27	15.71
4800	1.00	1.46	1.85	14.66	14.28	14.18	14.50	14.50	14.80
5000	0.85	1.38	1.77	14.59	14.29	14.30	14.74	14.33	14.51
5200	1.21	1.80	2.25	15.97	15.60	15.82	14.19	14.16	14.28
5400	2.83	3.33	3.71	24.54	24.64	25.19	12.64	13.27	13.50
5500	2.38	2.85	3.15	31.25	33.02	37.24	14.54	16.16	16.81
5600	1.45	1.99	2.36	24.91	26.14	25.66	16.60	18.70	19.39
5700	1.04	1.63	2.01	20.18	21.14	21.39	17.35	19.39	20.74
5800	0.93	1.49	1.91	17.26	18.82	19.14	17.01	19.41	20.23
6000	0.88	1.41	1.91	15.66	16.34	16.13	16.81	17.42	17.41
6200	0.90	1.55	2.15	14.44	14.12	13.69	15.65	15.25	14.93
6400	1.04	1.82	2.38	13.06	12.15	12.18	14.13	13.21	13.37
6500	1.17	1.96	2.55	12.44	11.65	11.32	13.32	12.59	12.40
6600	1.24	2.14	2.76	11.62	10.63	10.52	12.17	11.59	11.66
6700	1.51	2.43	3.12	10.48	9.80	9.66	10.91	10.75	10.78
6800	1.89	2.92	3.68	9.54	8.99	8.91	9.53	9.93	10.23
7000	3.74	5.59	6.19	7.24	7.84	8.70	7.08	8.62	9.76
7200	7.34	7.30	8.23	11.76	11.89	11.98	10.61	15.50	16.02
7400	7.10	7.13	7.47	10.34	11.86	12.95	10.51	12.67	14.43
7500	3.90	4.60	5.02	14.74	16.96	18.22	13.72	16.34	18.88
7600	2.62	3.34	4.07	22.47	24.81	25.95	20.22	21.11	24.20
7700	2.09	3.14	3.84	28.04	26.08	24.74	28.23	31.83	34.54
7800	2.19	3.41	4.15	20.60	19.17	17.25	28.17	29.65	27.23
8000	3.30	4.45	5.09	14.19	11.28	12.01	15.35	13.33	15.27
8200	3.29	3.68	4.63	8.91	10.48	11.20	8.85	11.43	12.33
8400	2.75	3.77	4.69	9.57	10.83	11.02	9.23	10.41	10.74
8500	2.74	3.65	4.43	9.76	9.86	12.05	9.44	9.36	10.66

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
250	2.97	2.95	2.94
260	2.70	2.68	2.67
270	2.47	2.46	2.45
300	1.97	1.95	1.95
400	1.18	1.17	1.17
500	0.86	0.85	0.85
600	0.69	0.68	0.68
700	0.60	0.59	0.59
800	0.54	0.53	0.52
900	0.49	0.48	0.48
1000	0.46	0.45	0.45
1200	0.43	0.42	0.41
1400	0.40	0.39	0.39
1500	0.40	0.38	0.38
1700	0.38	0.37	0.37
1800	0.38	0.37	0.36
2000	0.37	0.36	0.36
2200	0.37	0.35	0.35
2400	0.36	0.35	0.35
2500	0.36	0.35	0.35
2700	0.36	0.35	0.35
2800	0.36	0.35	0.35
3000	0.36	0.35	0.34
3200	0.36	0.35	0.35
3400	0.34	0.32	0.32
3500	0.34	0.33	0.33
3700	0.36	0.35	0.35
3800	0.36	0.35	0.35
4000	0.35	0.34	0.35
4200	0.36	0.35	0.35
4400	0.36	0.35	0.35
4500	0.37	0.36	0.35
4700	0.37	0.36	0.35
4800	0.32	0.31	0.31
5000	0.39	0.38	0.37
5200	0.41	0.39	0.38
5400	0.14	0.14	0.13
5500	0.22	0.24	0.25
5700	0.42	0.40	0.41
5800	0.40	0.40	0.39
6000	0.39	0.39	0.39
6200	0.40	0.39	0.38
6400	0.41	0.39	0.39
6500	0.42	0.42	0.41
6700	0.44	0.43	0.43
6800	0.46	0.45	0.44
7000	0.48	0.21	0.22
7200	0.05	0.23	0.16
7500	0.52	0.51	0.52
7700	0.56	0.55	0.53
7800	0.47	0.46	0.43
8000	0.37	0.29	0.31
8200	0.39	0.44	0.41
8500	0.49	0.33	0.20

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