

Metal Shield High Pass Filter

RHP-139+

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	90.74	97.98	93.62	0.001	0.001	0.004	0.001	0.002	0.003
1	90.81	97.35	93.91	0.001	0.001	0.003	0.001	0.002	0.003
10	96.31	96.15	101.09	0.003	0.002	0.002	0.003	0.004	0.003
50	82.88	81.89	85.11	0.03	0.04	0.05	0.01	0.04	0.06
75	52.06	51.94	51.75	0.09	0.12	0.14	0.08	0.13	0.16
100	30.40	30.27	30.12	0.26	0.32	0.36	0.27	0.34	0.39
112	20.88	20.75	20.58	0.48	0.56	0.63	0.51	0.61	0.69
125	10.49	10.42	10.30	1.43	1.62	1.78	1.52	1.74	1.92
133	5.68	5.70	5.64	3.33	3.66	3.95	3.49	3.88	4.22
139	2.88	2.98	3.02	7.23	7.72	8.17	7.57	8.19	8.78
145	1.55	1.71	1.80	13.72	14.29	14.84	14.86	15.91	16.99
150	1.06	1.23	1.33	20.66	20.98	21.28	24.23	25.47	26.91
170	0.62	0.75	0.83	23.97	23.65	23.58	24.72	24.59	24.66
200	0.42	0.52	0.58	23.88	23.41	22.98	25.17	24.81	24.39
225	0.43	0.52	0.59	19.04	18.59	18.19	19.24	18.85	18.48
300	0.18	0.26	0.31	20.24	19.95	19.68	20.09	19.87	19.64
400	0.10	0.19	0.24	30.66	31.53	32.12	29.19	29.37	29.49
500	0.11	0.20	0.26	40.14	35.89	32.67	34.21	31.90	30.03
600	0.09	0.18	0.25	32.35	28.37	25.87	30.82	27.66	25.38
700	0.04	0.13	0.19	29.77	25.88	23.41	29.29	25.70	23.28
800	0.01	0.11	0.17	28.49	24.54	22.00	28.60	24.62	22.09
900	0.07	0.21	0.31	27.68	23.65	21.03	27.88	23.88	21.20
1000	0.14	0.32	0.46	27.41	22.97	20.34	27.86	23.35	20.62
1200	0.08	0.24	0.35	26.07	21.90	19.40	27.14	22.51	19.83
1400	0.02	0.11	0.21	24.83	20.95	18.66	26.12	21.71	19.25
1500	0.16	0.38	0.55	23.70	20.54	18.53	24.66	21.26	19.09
2000	0.11	0.35	0.53	22.05	19.94	18.82	22.30	20.26	19.12
2200	0.18	0.44	0.61	22.67	20.48	19.61	22.28	20.32	19.44
2400	0.07	0.15	0.33	22.38	21.15	20.97	21.63	20.57	20.25
2500	0.08	0.37	0.57	22.43	21.50	21.53	21.39	20.77	20.54
3000	0.09	0.44	0.69	25.26	24.19	25.16	22.99	22.57	23.00
3200	0.30	0.62	0.84	25.01	24.92	26.27	23.08	23.80	24.74
3400	0.09	0.41	0.66	24.58	25.04	26.44	22.68	24.50	26.13
3500	0.08	0.50	0.81	23.83	25.06	26.33	22.37	24.58	26.34
4000	0.09	0.55	0.88	19.76	21.72	22.54	20.02	22.31	23.41
4200	0.40	0.82	1.15	18.85	19.71	19.81	19.43	20.15	20.39
4400	0.49	0.88	1.26	17.46	17.77	17.51	18.39	18.37	18.00
4500	0.24	0.67	1.04	16.95	16.82	16.41	17.91	17.56	17.17
5000	0.53	1.00	1.39	14.24	13.85	13.23	14.97	14.20	13.72
5200	0.54	1.15	1.66	13.98	13.33	12.87	14.42	13.60	12.99
5400	0.84	1.34	1.81	13.41	13.17	12.74	13.57	13.31	12.97
5500	0.73	1.29	1.72	13.59	13.39	13.02	13.47	13.26	13.22
6000	0.79	1.47	2.05	13.18	14.85	15.50	12.76	14.75	15.35
6200	1.38	2.62	2.99	16.08	17.87	16.98	14.29	13.86	14.53
6400	1.95	2.42	2.78	14.09	15.41	15.81	12.07	14.86	16.70
6500	1.98	2.62	3.18	13.21	14.70	15.94	14.78	16.00	17.59
7000	2.58	3.44	4.17	17.50	18.95	18.35	13.52	14.11	14.07
7200	5.95	6.95	8.05	18.80	20.57	20.70	9.09	10.31	11.01
7400	4.92	5.84	6.61	14.62	16.42	17.66	10.89	12.04	13.40
7500	3.58	5.02	5.64	15.95	18.94	21.84	15.04	16.99	21.83
8000	1.37	2.58	3.33	15.92	17.33	17.66	15.42	15.41	15.76
8200	1.38	2.22	3.35	14.86	14.71	14.65	13.66	13.88	13.18
8400	1.11	2.22	3.31	14.22	12.36	12.95	13.04	11.82	11.56
8500	1.69	2.95	3.66	13.18	12.04	12.00	12.78	11.31	11.11

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Page 1 of 2



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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
225	3.71	3.69	3.67
230	3.47	3.45	3.44
240	3.09	3.07	3.06
300	1.84	1.83	1.82
400	1.09	1.08	1.07
500	0.76	0.75	0.75
600	0.60	0.60	0.60
700	0.52	0.51	0.52
800	0.46	0.45	0.46
900	0.40	0.39	0.38
1000	0.35	0.34	0.32
1100	0.34	0.32	0.31
1200	0.34	0.34	0.35
1400	0.33	0.33	0.33
1500	0.28	0.26	0.25
1600	0.26	0.24	0.22
1800	0.34	0.34	0.35
2000	0.26	0.25	0.24
2100	0.23	0.21	0.20
2200	0.27	0.26	0.26
2400	0.33	0.32	0.32
2500	0.28	0.26	0.26
2600	0.24	0.21	0.21
2800	0.29	0.30	0.31
3000	0.28	0.26	0.25
3100	0.25	0.23	0.23
3200	0.23	0.24	0.24
3400	0.30	0.30	0.29
3500	0.30	0.28	0.26
3600	0.27	0.25	0.24
3800	0.23	0.24	0.25
4000	0.32	0.30	0.29
4100	0.28	0.26	0.26
4200	0.25	0.24	0.24
4400	0.26	0.26	0.26
4500	0.31	0.31	0.31
4600	0.34	0.32	0.32
4800	0.19	0.17	0.16
5000	0.30	0.31	0.31
5100	0.32	0.31	0.30
5200	0.29	0.26	0.25
5400	0.25	0.24	0.24
5500	0.27	0.28	0.28
5600	0.29	0.29	0.29
5800	0.28	0.28	0.29
6000	0.32	0.31	0.32
6100	0.32	0.32	0.28
6200	0.30	0.19	0.19
6400	0.32	0.30	0.33
6500	0.34	0.32	0.32
6600	0.28	0.25	0.25
6800	0.32	0.30	0.31
7000	0.38	0.37	0.37
7100	0.35	0.35	0.33

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Page 2 of 2



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