

# Metal Shield Low Pass Filter

# RLP-70+

## 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	0.22	0.30	0.35	31.68	29.24	27.86	31.84	29.23	27.80
30	0.39	0.47	0.52	28.36	27.94	27.51	28.33	28.24	28.04
40	0.49	0.58	0.64	36.21	35.92	35.65	41.43	38.92	37.78
50	0.63	0.74	0.81	35.56	35.87	36.48	35.52	35.37	35.49
70	1.22	1.44	1.57	25.40	24.95	24.62	29.79	28.36	27.46
74	1.65	1.93	2.11	18.19	17.86	17.55	20.45	19.72	19.12
77	2.44	2.81	3.05	11.69	11.48	11.28	12.28	12.04	11.79
80	3.94	4.41	4.72	6.69	6.64	6.56	6.94	6.89	6.80
84	7.67	8.22	8.60	3.09	3.18	3.22	3.22	3.31	3.34
86	10.09	10.65	11.04	2.19	2.31	2.36	2.28	2.40	2.46
90	15.37	15.92	16.31	1.27	1.40	1.47	1.32	1.46	1.54
92	18.10	18.63	19.01	1.07	1.19	1.26	1.11	1.24	1.32
100	29.01	29.51	29.87	0.69	0.79	0.85	0.71	0.83	0.89
110	43.83	44.38	44.79	0.52	0.61	0.65	0.52	0.63	0.69
115	53.80	54.43	54.95	0.47	0.55	0.59	0.47	0.57	0.63
200	82.03	83.81	81.65	0.18	0.23	0.26	0.16	0.24	0.29
300	77.33	75.93	76.51	0.11	0.15	0.19	0.07	0.16	0.21
400	73.64	73.65	74.00	0.08	0.13	0.18	0.04	0.14	0.20
500	76.66	74.53	75.05	0.06	0.13	0.18	0.02	0.14	0.21
600	79.28	78.60	79.34	0.06	0.14	0.20	0.01	0.15	0.23
700	82.91	84.05	85.11	0.06	0.15	0.21	0.01	0.16	0.25
800	76.75	76.43	74.67	0.07	0.16	0.24	0.01	0.18	0.28
900	53.42	53.97	54.42	0.08	0.18	0.26	0.04	0.23	0.33
1000	57.84	58.06	58.26	0.08	0.19	0.28	0.01	0.21	0.33
1200	43.46	44.45	45.28	0.13	0.25	0.35	0.03	0.25	0.39
1400	63.06	63.62	64.28	0.11	0.25	0.36	0.02	0.27	0.42
1500	67.13	69.12	69.46	0.12	0.27	0.38	0.03	0.29	0.44
1600	68.82	68.90	69.03	0.12	0.28	0.39	0.02	0.29	0.46
1800	75.33	75.27	73.86	0.14	0.30	0.42	0.03	0.32	0.48
2000	76.78	74.72	72.42	0.15	0.32	0.44	0.03	0.33	0.51
2200	77.27	75.31	77.11	0.16	0.33	0.45	0.03	0.35	0.53
2400	58.88	60.74	63.95	0.18	0.35	0.47	0.04	0.36	0.54
2500	60.92	54.71	56.24	0.18	0.36	0.47	0.04	0.37	0.56
2600	56.79	55.34	53.53	0.19	0.36	0.49	0.03	0.37	0.56
2800	53.36	53.60	52.13	0.19	0.36	0.48	0.03	0.38	0.58
3000	53.68	54.49	56.04	0.19	0.37	0.48	0.02	0.38	0.58
3200	44.37	44.34	45.75	0.23	0.43	0.53	0.03	0.41	0.61
3400	48.38	47.72	45.77	0.20	0.39	0.52	0.03	0.41	0.64
3500	50.54	50.33	48.69	0.20	0.39	0.51	0.05	0.42	0.64
3600	43.68	43.74	43.08	0.22	0.42	0.55	0.04	0.44	0.67
3800	44.88	43.99	45.95	0.21	0.44	0.58	0.02	0.44	0.67
4000	39.67	39.00	41.47	0.31	0.57	0.71	0.08	0.52	0.72
4200	40.37	39.01	37.37	0.82	1.98	2.28	0.11	0.54	0.80
4400	35.36	35.15	34.28	0.65	0.78	0.93	0.11	0.58	0.87
4500	34.31	34.17	35.68	0.38	0.62	0.82	0.19	0.67	0.94
4600	32.73	32.89	33.30	0.33	0.57	0.77	0.23	0.69	0.97
4800	28.68	28.01	27.01	0.34	0.64	0.89	0.20	0.83	1.26
5000	24.87	23.45	22.15	0.42	0.82	1.13	0.48	1.35	2.16
5200	19.76	19.06	20.17	0.80	1.27	1.46	1.82	3.45	3.45
5400	19.02	21.84	23.58	1.04	1.24	1.47	2.22	1.99	2.11
5500	18.65	21.02	22.90	1.19	1.39	1.59	2.10	1.97	2.10
5600	18.36	21.02	22.89	1.13	1.40	1.63	1.48	1.65	1.92
5800	18.94	20.06	20.87	1.04	1.87	2.41	0.79	1.54	2.00
6000	15.94	15.97	17.35	3.11	7.20	8.15	1.20	2.15	2.93

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	8.87	8.87	8.93
10	8.98	8.99	9.02
12	9.02	9.03	9.06
14	9.07	9.09	9.12
16	9.14	9.16	9.19
18	9.22	9.24	9.27
20	9.31	9.34	9.37
22	9.42	9.45	9.48
24	9.55	9.58	9.61
26	9.70	9.73	9.77
28	9.89	9.92	9.95
30	10.09	10.13	10.16
32	10.37	10.41	10.44
34	10.66	10.71	10.75
36	11.12	11.17	11.22
38	11.61	11.66	11.72
40	12.31	12.35	12.39
42	12.96	12.98	13.00
44	13.24	13.24	13.25
46	13.47	13.45	13.45
48	13.55	13.52	13.51
50	13.60	13.56	13.55
52	13.61	13.57	13.56
54	13.60	13.56	13.54
56	13.57	13.53	13.50
58	13.52	13.47	13.44
60	13.45	13.39	13.36
62	13.35	13.29	13.25
64	13.25	13.17	13.13
66	13.09	13.01	12.95
70	12.59	12.47	12.34
72	12.11	11.97	11.80
74	10.78	10.59	10.45
76	9.56	9.36	9.26
80	7.99	7.95	7.93
82	7.67	7.64	7.64
84	7.42	7.39	7.39
86	7.23	7.18	7.19
90	6.84	6.76	6.78
92	6.63	6.58	6.57
94	6.42	6.41	6.35
96	6.25	6.19	6.17
100	5.85	5.79	5.74
102	5.62	5.61	5.50
104	5.42	5.39	5.28
106	5.19	5.17	5.04
110	4.67	4.71	4.50
112	4.47	4.46	4.23
114	4.20	4.13	3.93
116	3.87	3.73	3.60
120	3.30	3.15	2.96
122	2.90	2.76	2.52
124	2.47	2.33	2.05
126	1.94	1.70	1.47
130	1.32	0.98	0.97

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