

# Metal Shield Low Pass Filter

# RLP-470+

## 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	0.03	0.04	0.05	41.31	40.98	40.53	48.56	46.00	44.38
50	0.09	0.12	0.13	42.64	39.31	37.11	37.19	38.69	40.23
100	0.13	0.17	0.19	36.09	35.63	34.35	37.72	34.71	32.94
150	0.17	0.23	0.26	28.45	27.44	26.80	28.16	27.25	26.71
200	0.23	0.30	0.35	22.32	21.80	21.57	22.28	21.80	21.60
300	0.37	0.45	0.50	18.18	18.62	19.21	18.20	18.77	19.46
400	0.47	0.61	0.70	23.44	22.55	22.02	23.36	22.79	22.22
470	0.75	0.96	1.10	30.81	32.73	35.33	22.69	21.83	21.14
500	1.73	2.12	2.44	9.52	8.97	8.35	9.08	8.56	8.00
510	2.73	3.21	3.59	6.16	5.88	5.52	5.90	5.66	5.35
650	30.55	31.19	31.03	0.33	0.39	0.45	0.26	0.41	0.49
700	38.74	39.80	39.03	0.27	0.34	0.40	0.20	0.35	0.44
780	49.47	52.27	49.40	0.21	0.30	0.37	0.15	0.31	0.42
800	51.63	55.19	51.34	0.21	0.29	0.37	0.14	0.31	0.42
900	58.35	66.23	57.68	0.18	0.27	0.36	0.11	0.29	0.42
1000	61.14	70.30	60.22	0.16	0.27	0.37	0.09	0.29	0.43
1200	61.83	67.53	61.20	0.15	0.29	0.41	0.08	0.31	0.48
1400	60.81	64.06	60.64	0.17	0.32	0.46	0.07	0.34	0.52
1500	59.86	62.61	60.10	0.17	0.34	0.48	0.07	0.35	0.54
1700	58.71	60.09	59.29	0.18	0.37	0.53	0.07	0.37	0.59
1800	58.46	59.93	59.16	0.19	0.38	0.54	0.07	0.39	0.59
1850	58.64	59.71	59.31	0.20	0.39	0.55	0.07	0.39	0.60
2000	63.45	64.99	65.21	0.21	0.41	0.57	0.08	0.41	0.63
2200	48.21	47.74	47.35	0.23	0.43	0.59	0.12	0.47	0.70
2400	27.39	28.71	29.76	0.26	0.46	0.62	0.51	0.82	0.99
2500	32.68	33.11	33.71	0.25	0.46	0.62	0.12	0.50	0.75
2700	32.20	32.69	32.91	0.26	0.47	0.63	0.11	0.46	0.70
2800	29.97	30.28	30.18	0.27	0.47	0.63	0.09	0.46	0.71
3000	16.60	16.02	14.36	0.98	1.53	2.53	0.50	1.08	1.76
3200	26.61	27.68	29.00	0.32	0.52	0.67	0.12	0.49	0.73
3400	32.99	33.44	34.12	0.27	0.48	0.62	0.07	0.48	0.74
3500	35.76	34.86	36.33	0.27	0.49	0.61	0.05	0.48	0.71
3700	37.25	37.81	38.47	0.25	0.47	0.62	0.05	0.48	0.74
3800	36.86	36.08	36.98	0.27	0.48	0.62	0.06	0.49	0.74
4000	38.66	39.80	38.22	0.30	0.53	0.69	0.02	0.48	0.76
4200	35.50	33.90	36.48	0.29	0.52	0.65	0.04	0.52	0.81
4400	36.41	35.25	39.23	0.28	0.58	0.72	0.04	0.54	0.88
4500	37.86	35.83	42.02	0.31	0.60	0.75	0.02	0.55	0.86
4700	34.29	32.39	35.58	0.34	0.67	0.79	0.14	0.64	0.95
4800	33.95	31.31	36.22	0.33	0.65	0.81	0.13	0.59	0.94
5000	34.41	29.84	32.16	0.46	0.89	0.96	0.07	0.64	0.99
5200	33.73	29.15	32.36	0.45	1.38	0.94	0.21	0.75	1.10
5400	36.78	26.31	34.07	0.51	1.98	0.98	0.29	0.92	1.16
5500	33.85	26.41	34.70	0.46	2.17	1.06	0.12	0.94	1.17
5700	34.08	29.57	34.12	0.56	1.71	1.18	0.20	0.94	1.27
5800	34.79	32.02	34.27	0.69	1.43	1.16	0.21	0.86	1.28
6000	30.69	33.26	35.46	0.65	1.17	1.27	0.29	0.81	1.30
6200	27.74	41.29	35.31	0.85	1.13	1.30	0.31	0.89	1.40
6400	30.76	37.46	32.95	0.79	1.14	1.42	0.29	0.98	1.45
6500	29.97	46.80	33.50	0.78	1.02	1.54	0.42	0.99	1.45
7000	32.85	43.29	32.72	0.87	1.15	1.48	0.36	1.11	1.53
7500	30.89	38.17	31.26	0.88	1.12	1.78	0.26	1.05	1.64
8000	35.07	42.99	34.81	0.89	1.18	1.88	0.20	1.05	1.74
8500	41.39	39.71	36.12	0.82	1.21	2.10	0.15	0.98	1.67

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	1.66	1.67	1.70
10	1.68	1.69	1.70
20	1.68	1.69	1.70
30	1.68	1.68	1.69
40	1.68	1.68	1.69
50	1.68	1.69	1.69
60	1.69	1.69	1.70
80	1.70	1.70	1.70
100	1.71	1.71	1.71
120	1.73	1.72	1.73
140	1.75	1.74	1.75
150	1.76	1.76	1.76
160	1.77	1.77	1.77
180	1.80	1.79	1.80
200	1.83	1.83	1.83
220	1.87	1.86	1.87
240	1.91	1.91	1.91
250	1.93	1.93	1.93
260	1.96	1.96	1.96
280	2.02	2.02	2.03
300	2.09	2.10	2.10
350	2.35	2.35	2.36
400	2.76	2.77	2.79
450	3.65	3.66	3.67
500	4.11	4.07	4.04
550	3.52	3.46	3.41
600	2.13	2.10	2.08
650	1.32	1.32	1.35
700	0.97	1.00	1.04
750	0.78	0.79	0.89
800	0.64	0.65	0.77
850	0.62	0.58	0.70
900	0.60	0.58	0.65
950	0.57	0.51	0.57
1000	0.54	0.50	0.53
1050	0.54	0.61	0.52
1100	0.52	0.56	0.46
1150	0.52	0.55	0.46
1200	0.46	0.57	0.44
1250	0.52	0.53	0.40
1300	0.45	0.46	0.42
1350	0.47	0.39	0.43
1400	0.44	0.38	0.38
1450	0.42	0.43	0.38
1500	0.45	0.45	0.39
1550	0.39	0.36	0.37
1600	0.36	0.33	0.33
1650	0.35	0.33	0.33
1700	0.44	0.37	0.37
1750	0.38	0.34	0.35
1800	0.42	0.41	0.50
1850	0.40	0.53	0.32
1900	0.29	0.25	0.18
1950	0.22	0.11	0.07

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