

# Metal Shield Low Pass Filter

# RLP-320+

## 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	0.04	0.05	0.06	45.97	43.68	41.84	40.51	39.88	39.11
50	0.13	0.16	0.18	33.33	32.92	32.68	32.56	33.05	33.64
100	0.19	0.23	0.27	35.67	36.11	35.99	39.05	35.61	33.18
150	0.27	0.33	0.39	24.08	23.65	23.31	24.04	23.67	23.39
200	0.39	0.46	0.52	19.61	19.94	20.42	19.62	19.98	20.47
260	0.48	0.59	0.68	42.14	42.17	38.78	38.37	38.12	35.49
300	0.70	0.84	0.96	19.71	19.58	19.51	20.12	20.09	20.15
320	0.86	1.04	1.20	22.75	22.61	22.31	29.97	30.39	32.62
334	1.22	1.47	1.73	15.76	14.81	13.72	17.54	16.46	15.14
345	2.16	2.53	2.91	8.41	8.00	7.47	8.80	8.44	7.92
350	2.95	3.37	3.81	6.18	5.93	5.58	6.43	6.23	5.90
400	18.26	18.65	19.09	0.59	0.67	0.73	0.60	0.72	0.81
440	30.27	30.58	30.94	0.34	0.42	0.48	0.34	0.45	0.53
500	46.20	46.46	46.80	0.24	0.31	0.38	0.23	0.33	0.42
510	48.67	48.92	49.28	0.23	0.30	0.37	0.21	0.32	0.41
600	66.03	66.22	66.36	0.17	0.25	0.33	0.15	0.27	0.37
700	69.85	69.61	70.14	0.15	0.23	0.32	0.10	0.24	0.36
1000	70.95	71.31	71.23	0.13	0.24	0.36	0.07	0.25	0.41
1200	68.43	68.87	68.27	0.13	0.26	0.41	0.07	0.27	0.46
1300	67.05	67.68	67.75	0.14	0.27	0.43	0.07	0.29	0.49
1500	66.61	66.63	66.94	0.15	0.30	0.46	0.08	0.32	0.53
1600	70.17	71.61	72.10	0.15	0.31	0.48	0.08	0.33	0.56
1800	50.05	50.01	48.98	0.17	0.33	0.51	0.12	0.39	0.64
2000	38.80	39.44	40.28	0.18	0.35	0.53	0.13	0.40	0.65
2200	38.71	39.40	40.07	0.20	0.38	0.55	0.11	0.40	0.65
2400	28.76	28.74	28.49	0.28	0.48	0.68	0.16	0.46	0.73
2500	24.02	25.73	27.86	0.53	0.64	0.77	0.29	0.56	0.78
2800	43.89	45.70	45.16	0.20	0.38	0.57	0.09	0.40	0.68
3000	46.82	48.24	47.76	0.20	0.38	0.57	0.09	0.40	0.68
3200	46.85	46.73	48.09	0.22	0.40	0.57	0.08	0.41	0.69
3400	41.12	41.97	46.97	0.23	0.41	0.57	0.12	0.44	0.71
3500	50.01	51.47	51.02	0.19	0.38	0.58	0.08	0.42	0.71
3800	41.32	44.30	49.33	0.23	0.41	0.59	0.08	0.43	0.74
4000	42.56	44.12	43.54	0.22	0.41	0.65	0.08	0.45	0.80
4200	43.05	44.73	42.18	0.21	0.43	0.66	0.05	0.46	0.81
4400	39.94	40.26	41.75	0.26	0.47	0.73	0.13	0.53	0.90
4500	39.45	42.96	50.07	0.25	0.49	0.71	0.06	0.48	0.86
4800	37.29	39.36	38.94	0.28	0.51	0.82	0.11	0.56	1.11
5000	32.68	35.46	33.94	0.44	0.60	0.86	0.31	0.72	1.16
5200	34.19	33.18	32.83	0.31	0.57	0.93	0.27	0.82	1.49
5400	29.02	28.36	30.64	0.40	0.68	1.00	0.49	1.43	2.24
5500	25.99	27.04	35.72	0.49	0.74	1.05	1.19	2.24	1.89
5800	53.38	42.21	45.74	0.47	0.73	1.16	0.41	0.99	1.49
6000	41.16	47.78	41.68	0.50	0.85	1.19	0.36	0.89	1.46
6200	43.53	54.52	36.99	0.51	0.80	1.31	0.38	0.87	1.54
6500	37.68	37.24	43.03	0.71	0.91	1.33	0.36	0.98	1.64
6800	36.46	48.06	35.49	0.69	0.97	1.49	0.46	1.05	1.80
7000	36.20	39.77	44.17	0.72	1.04	1.56	0.47	1.10	1.81
7200	36.98	42.04	43.10	0.75	1.21	1.67	0.58	1.27	1.91
7500	36.49	35.81	37.97	0.68	1.32	1.61	0.52	1.24	1.93
7800	28.45	29.04	28.68	0.75	1.24	1.74	0.41	1.21	1.95
8000	26.15	25.55	24.14	0.75	1.24	2.01	0.42	1.26	2.16
8200	21.85	20.28	19.71	0.97	1.75	2.84	0.58	1.66	2.82
8500	18.38	20.38	23.16	1.92	2.24	2.38	1.39	1.92	2.33

REV. X2  
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 101007  
 Page 1 of 2



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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	2.33	2.35	2.34
10	2.34	2.35	2.35
20	2.33	2.34	2.35
30	2.33	2.34	2.35
40	2.34	2.34	2.35
50	2.35	2.35	2.36
60	2.36	2.37	2.38
70	2.38	2.38	2.39
80	2.40	2.40	2.41
90	2.41	2.41	2.42
100	2.44	2.44	2.45
110	2.46	2.46	2.47
120	2.49	2.49	2.50
130	2.53	2.52	2.53
140	2.56	2.56	2.57
150	2.60	2.60	2.61
160	2.65	2.65	2.66
170	2.70	2.70	2.71
180	2.76	2.76	2.78
190	2.83	2.83	2.85
200	2.91	2.91	2.93
210	3.00	3.00	3.02
220	3.10	3.10	3.12
230	3.21	3.22	3.23
240	3.34	3.35	3.37
250	3.50	3.51	3.53
260	3.70	3.72	3.74
270	3.96	3.98	4.01
300	4.94	4.93	4.94
350	5.11	5.07	5.04
400	3.98	3.92	3.86
450	1.95	1.93	1.92
500	1.29	1.25	1.27
550	1.04	1.01	1.05
600	0.94	0.98	0.91
650	0.66	0.82	0.74
700	0.55	0.55	0.49
750	0.59	0.53	0.49
800	0.45	0.42	0.45
850	0.57	0.56	0.32
900	0.44	0.48	0.49
950	0.61	0.46	0.49
1000	0.48	0.43	0.47
1050	0.37	0.44	0.47
1100	0.42	0.34	0.39
1150	0.42	0.37	0.39
1200	0.29	0.42	0.34
1250	0.35	0.28	0.31
1300	0.34	0.41	0.27
1350	0.36	0.35	0.39
1400	0.40	0.32	0.31
1450	0.34	0.32	0.38
1500	0.18	0.34	0.40
1550	0.25	0.15	0.09

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 Page 2 of 2



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