

Metal Shield Low Pass Filter

RLP-83+

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	0.21	0.27	0.35	32.86	30.45	28.96	33.03	30.44	28.88
40	0.41	0.49	0.55	32.02	30.93	30.16	31.97	31.11	30.33
60	0.64	0.75	0.82	23.50	23.59	23.70	23.55	23.53	23.51
83	1.14	1.34	1.48	28.28	27.82	27.38	33.20	30.88	29.44
90	1.72	2.02	2.25	17.45	17.00	16.55	19.20	18.20	17.48
93	2.63	3.02	3.31	11.93	11.62	11.30	12.45	12.07	11.70
94	3.00	3.42	3.74	10.21	9.97	9.72	10.63	10.34	10.05
100	7.21	7.76	8.20	3.65	3.70	3.70	3.75	3.82	3.82
102	9.13	9.70	10.16	2.43	2.54	2.59	2.50	2.63	2.69
110	18.55	19.06	19.48	1.04	1.16	1.23	1.07	1.21	1.29
115	24.49	24.96	25.37	0.77	0.87	0.94	0.79	0.92	1.00
118	28.04	28.50	28.90	0.67	0.77	0.83	0.68	0.81	0.89
135	50.47	51.08	51.58	0.45	0.52	0.57	0.45	0.55	0.61
200	77.10	76.40	76.68	0.21	0.26	0.30	0.20	0.28	0.33
300	81.40	81.89	81.86	0.11	0.17	0.21	0.09	0.17	0.23
500	77.79	77.64	78.15	0.07	0.14	0.19	0.03	0.14	0.22
800	92.11	92.30	90.08	0.06	0.16	0.23	0.01	0.18	0.28
850	98.14	88.45	95.91	0.07	0.17	0.25	0.01	0.18	0.29
900	76.35	76.01	75.42	0.08	0.18	0.27	0.02	0.20	0.31
1000	52.74	53.26	53.70	0.08	0.19	0.28	0.05	0.23	0.36
1200	45.95	46.02	45.92	0.11	0.23	0.34	0.04	0.25	0.40
1400	57.70	58.11	58.64	0.11	0.25	0.37	0.03	0.27	0.43
1500	62.81	63.27	63.95	0.11	0.26	0.38	0.04	0.29	0.45
1800	69.07	75.01	69.70	0.14	0.29	0.42	0.05	0.32	0.50
2000	70.87	73.03	73.01	0.15	0.32	0.44	0.05	0.33	0.52
2200	70.71	70.17	73.68	0.16	0.33	0.47	0.04	0.34	0.53
2400	63.87	60.89	63.83	0.17	0.34	0.47	0.06	0.37	0.56
2500	62.79	55.58	62.08	0.17	0.35	0.47	0.04	0.37	0.56
2800	61.00	55.24	56.23	0.17	0.35	0.46	0.03	0.37	0.57
3000	51.51	55.78	51.36	0.19	0.36	0.49	0.04	0.37	0.60
3200	52.57	48.54	51.88	0.19	0.38	0.50	0.01	0.38	0.58
3400	47.65	46.64	44.55	0.22	0.37	0.54	0.03	0.38	0.62
3500	44.43	44.33	43.72	0.22	0.38	0.54	0.02	0.39	0.61
3800	44.48	45.66	46.08	0.20	0.40	0.53	0.03	0.44	0.70
4000	44.86	41.49	44.01	0.22	0.45	0.55	0.02	0.50	0.65
4200	39.44	43.06	39.42	0.20	0.46	0.57	0.04	0.47	0.76
4400	39.45	37.88	39.25	0.23	0.44	0.67	0.09	0.59	0.87
4500	39.61	37.04	37.24	0.35	0.61	0.78	0.12	0.84	1.07
4800	33.52	31.16	34.22	0.26	0.57	0.71	0.32	0.75	1.09
5000	29.19	28.90	28.71	0.34	0.58	0.88	0.28	0.86	1.35
5200	26.38	28.81	26.20	0.45	0.82	0.97	0.87	1.69	2.22
5500	19.76	20.03	21.83	0.73	1.13	1.35	1.73	3.69	3.16
5800	20.73	24.67	25.81	0.67	0.89	1.27	1.12	1.38	1.76
6000	22.97	25.44	26.07	0.76	1.06	1.45	0.63	1.23	1.68
6200	22.77	22.74	23.72	0.76	1.63	1.89	0.58	1.50	2.02
6500	12.95	15.20	16.99	5.27	7.73	7.27	2.76	5.21	5.75
6800	26.16	31.09	29.09	1.88	1.81	2.29	1.64	1.85	2.41
7000	31.02	31.93	34.60	0.92	1.56	1.77	0.64	1.34	1.93
7200	30.50	32.15	35.47	0.97	1.46	1.76	0.54	1.36	1.85
7500	34.22	39.21	44.60	0.81	1.28	1.69	0.44	1.29	1.81
7800	37.09	37.73	36.84	0.84	1.41	1.92	0.37	1.27	1.93
8000	34.10	34.89	37.04	1.07	1.55	1.82	0.40	1.29	1.78
8200	39.22	44.70	56.83	0.85	1.29	1.70	0.34	1.14	1.72
8500	27.62	27.37	27.24	0.79	1.52	2.02	0.28	1.24	1.90

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	7.46	7.47	7.52
1	7.46	7.48	7.52
2	7.47	7.48	7.53
3	7.48	7.49	7.54
4	7.49	7.50	7.54
5	7.50	7.51	7.55
10	7.54	7.56	7.59
15	7.62	7.64	7.67
20	7.74	7.76	7.79
25	7.90	7.92	7.96
30	8.13	8.15	8.19
35	8.46	8.48	8.52
40	8.95	8.99	9.03
45	9.79	9.83	9.88
50	10.84	10.86	10.89
55	11.38	11.36	11.36
60	11.17	11.13	11.12
65	10.76	10.71	10.69
70	10.56	10.50	10.46
75	10.22	10.12	10.02
80	8.73	8.67	8.43
82	8.09	8.06	7.89
84	7.44	7.45	7.37
85	7.12	7.14	7.10
86	6.92	6.95	6.94
87	6.85	6.86	6.86
88	6.78	6.78	6.79
89	6.70	6.69	6.72
90	6.63	6.61	6.64
92	6.49	6.47	6.51
94	6.37	6.36	6.38
96	6.24	6.24	6.25
98	6.14	6.13	6.15
100	6.05	6.03	6.04
102	5.96	5.91	5.92
104	5.87	5.76	5.77
106	5.78	5.62	5.62
108	5.67	5.51	5.50
110	5.56	5.42	5.41
112	5.44	5.33	5.32
114	5.28	5.12	5.11
116	5.12	4.91	4.91
118	4.91	4.69	4.67
120	4.60	4.45	4.37
122	4.29	4.21	4.07
124	3.54	3.49	3.46
126	2.56	2.52	2.69
128	1.59	1.56	1.92
130	1.39	1.27	1.52
132	1.18	0.98	1.13
134	0.94	0.72	0.80
136	0.63	0.52	0.56
138	0.33	0.33	0.32
140	0.13	0.15	0.13

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