

Metal Shield Low Pass Filter

RLP-137+

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	0.09	0.12	0.15	39.33	36.92	35.19	37.63	36.00	34.67
50	0.27	0.32	0.35	34.46	34.16	33.75	33.73	33.51	33.39
80	0.42	0.49	0.54	24.15	24.13	24.13	24.22	24.03	23.88
110	0.61	0.72	0.79	24.67	25.35	26.04	24.75	25.54	26.30
137	1.09	1.27	1.42	20.35	20.10	19.72	22.16	21.98	21.57
146	1.97	2.25	2.50	10.82	10.61	10.33	11.24	11.08	10.82
150	2.85	3.19	3.51	7.34	7.23	7.05	7.58	7.51	7.35
151	3.21	3.57	3.90	6.70	6.61	6.45	6.92	6.87	6.74
190	28.84	29.23	29.65	0.54	0.62	0.67	0.55	0.65	0.72
200	36.04	36.44	36.85	0.46	0.53	0.58	0.46	0.55	0.61
215	47.90	48.35	48.80	0.38	0.44	0.49	0.37	0.46	0.52
500	95.89	88.05	93.20	0.10	0.17	0.22	0.07	0.18	0.26
800	88.69	88.62	86.40	0.09	0.17	0.25	0.03	0.18	0.30
1000	80.77	78.68	78.52	0.10	0.20	0.29	0.04	0.22	0.35
1200	42.52	42.07	41.40	0.13	0.24	0.36	0.26	0.50	0.71
1400	47.11	47.35	47.47	0.14	0.27	0.39	0.06	0.28	0.46
1500	40.28	40.36	40.30	0.16	0.30	0.43	0.07	0.31	0.49
1800	52.94	53.09	53.46	0.17	0.32	0.46	0.08	0.34	0.54
1900	55.91	56.33	56.79	0.18	0.33	0.47	0.09	0.35	0.55
2000	58.17	58.49	58.75	0.19	0.34	0.48	0.10	0.36	0.56
2200	62.83	63.19	62.35	0.20	0.36	0.49	0.10	0.38	0.58
2400	61.82	62.62	62.35	0.20	0.36	0.50	0.12	0.38	0.59
2500	64.20	63.17	63.83	0.21	0.37	0.51	0.10	0.39	0.61
2800	50.27	51.69	52.55	0.22	0.38	0.51	0.12	0.41	0.62
2900	53.53	53.51	53.98	0.20	0.37	0.51	0.10	0.40	0.61
3000	49.20	49.75	49.77	0.22	0.38	0.52	0.09	0.41	0.63
3200	50.47	49.61	49.00	0.21	0.38	0.52	0.10	0.43	0.66
3400	46.20	48.31	49.56	0.22	0.38	0.52	0.10	0.43	0.66
3500	47.50	47.41	46.86	0.21	0.38	0.52	0.08	0.44	0.70
3800	43.46	42.40	45.19	0.22	0.40	0.54	0.07	0.45	0.72
3900	44.13	43.41	43.28	0.24	0.43	0.58	0.03	0.43	0.73
4000	45.54	45.71	45.71	0.20	0.39	0.57	0.04	0.45	0.74
4200	43.47	44.75	45.84	0.28	0.47	0.60	0.05	0.48	0.80
4400	35.84	35.81	36.26	0.26	0.46	0.62	0.11	0.56	0.90
4500	38.48	38.02	40.69	0.29	0.51	0.66	0.08	0.55	0.86
4800	34.69	34.61	34.53	0.35	0.57	0.76	0.15	0.63	1.08
4900	32.83	31.53	30.59	0.31	0.57	0.77	0.22	0.77	1.32
5000	29.75	28.74	28.50	0.39	0.62	0.91	0.39	1.07	1.68
5200	28.67	31.28	34.29	0.51	0.73	0.88	0.98	1.28	1.53
5400	37.37	39.98	38.62	0.50	0.79	0.97	0.53	1.01	1.48
5500	36.98	37.68	35.54	0.47	0.71	0.94	0.51	1.01	1.48
5800	25.77	28.11	32.25	0.70	0.94	1.10	1.19	1.31	1.64
5900	29.59	32.04	34.31	0.73	1.02	1.29	0.61	1.11	1.48
6000	27.03	32.55	37.16	0.81	1.13	1.31	0.83	1.32	1.65
6200	38.13	48.10	41.66	0.74	1.02	1.25	0.86	1.25	1.58
6400	48.30	42.95	40.74	0.58	0.87	1.23	0.42	0.98	1.58
6500	36.47	38.35	49.72	0.59	0.89	1.28	0.49	1.08	1.58
6800	33.73	34.99	33.02	0.63	0.92	1.41	0.38	1.12	1.67
7000	31.37	33.91	33.53	0.78	1.19	1.43	0.47	1.17	1.67
7200	31.56	31.12	28.92	0.78	1.13	1.56	0.42	1.13	1.71
7400	25.51	24.44	24.51	0.83	1.28	1.77	0.40	1.24	1.96
7800	16.59	14.86	14.29	1.42	2.71	4.06	0.91	2.36	3.62
8000	9.90	9.71	11.52	3.98	6.52	5.50	2.84	4.96	4.67
8500	8.15	9.98	12.36	3.20	4.65	4.45	3.35	5.96	6.60

REV. X2
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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	4.83	4.85	4.87
10	4.83	4.85	4.87
20	4.86	4.87	4.89
30	4.93	4.95	4.96
40	5.06	5.07	5.09
50	5.25	5.26	5.28
60	5.56	5.57	5.60
70	5.95	5.97	6.00
80	6.46	6.48	6.52
90	7.19	7.21	7.24
100	7.82	7.81	7.82
110	8.12	8.10	8.09
120	8.20	8.17	8.15
125	8.18	8.15	8.13
127	8.17	8.13	8.11
129	8.15	8.11	8.09
131	8.13	8.09	8.06
133	8.11	8.06	8.04
135	8.07	8.03	8.00
136	8.06	8.01	7.99
137	8.04	8.00	7.97
138	8.02	7.98	7.95
139	8.00	7.96	7.93
140	7.98	7.94	7.91
142	7.94	7.89	7.86
144	7.90	7.85	7.82
146	7.85	7.80	7.76
148	7.79	7.74	7.71
150	7.74	7.68	7.65
152	7.68	7.62	7.58
154	7.62	7.55	7.51
160	7.36	7.30	7.21
170	6.08	5.90	5.55
172	5.41	5.29	5.02
174	4.64	4.62	4.50
176	3.93	3.99	4.01
178	3.72	3.77	3.77
180	3.52	3.55	3.53
182	3.35	3.36	3.33
184	3.23	3.21	3.19
186	3.10	3.06	3.05
188	2.98	2.93	2.92
190	2.85	2.79	2.79
192	2.72	2.67	2.66
194	2.58	2.61	2.54
196	2.44	2.55	2.43
198	2.33	2.43	2.29
200	2.23	2.25	2.14
202	2.14	2.08	1.98
204	1.96	1.92	1.84
206	1.77	1.76	1.71
208	1.58	1.61	1.56
210	1.42	1.44	1.36
215	0.95	0.97	0.86
220	0.33	0.39	0.30

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