

Metal Shield Low Pass Filter

RLP-176+

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	0.08	0.10	0.12	38.67	37.40	36.32	41.68	39.16	37.45
50	0.25	0.30	0.32	23.27	23.43	23.57	22.97	23.17	23.40
100	0.39	0.47	0.52	25.42	25.53	25.73	25.47	25.55	25.66
120	0.49	0.57	0.64	21.77	22.09	22.47	21.70	22.06	22.49
150	0.63	0.75	0.84	37.36	39.75	42.98	38.56	41.25	46.17
176	1.00	1.19	1.34	26.18	25.42	24.44	24.63	23.90	23.06
185	1.63	1.90	2.13	12.84	12.48	12.07	12.59	12.26	11.85
188	2.09	2.40	2.67	9.95	9.67	9.36	9.77	9.54	9.23
191	2.69	3.05	3.36	7.54	7.35	7.13	7.41	7.26	7.04
200	5.98	6.43	6.85	3.26	3.27	3.23	3.18	3.22	3.19
245	29.48	29.79	30.10	0.46	0.53	0.58	0.41	0.51	0.58
285	48.01	48.16	48.61	0.31	0.37	0.41	0.26	0.35	0.42
300	55.25	55.28	55.79	0.27	0.33	0.37	0.23	0.32	0.38
400	79.23	80.81	82.33	0.17	0.22	0.27	0.12	0.22	0.28
500	93.04	94.84	91.67	0.13	0.19	0.25	0.07	0.18	0.26
700	96.82	84.43	93.59	0.10	0.18	0.25	0.03	0.17	0.27
900	82.92	71.53	80.90	0.10	0.20	0.29	0.03	0.19	0.31
1000	78.32	65.18	79.37	0.11	0.21	0.31	0.02	0.20	0.33
1200	81.38	73.73	79.59	0.12	0.24	0.35	0.03	0.24	0.39
1400	66.47	71.48	66.09	0.15	0.28	0.40	0.04	0.27	0.44
1500	49.81	49.78	49.19	0.19	0.33	0.45	0.04	0.29	0.46
1800	48.85	49.29	49.50	0.18	0.33	0.46	0.06	0.32	0.51
2000	40.28	40.79	40.37	0.21	0.36	0.50	0.10	0.36	0.56
2200	48.65	48.74	50.19	0.21	0.37	0.50	0.08	0.36	0.57
2400	61.89	62.48	59.98	0.22	0.38	0.51	0.09	0.37	0.58
2500	51.11	50.33	52.74	0.23	0.39	0.52	0.09	0.38	0.59
2800	57.76	59.33	59.71	0.23	0.39	0.51	0.08	0.37	0.59
3000	51.71	53.20	53.33	0.22	0.38	0.51	0.07	0.38	0.60
3200	56.02	55.29	55.51	0.21	0.37	0.50	0.05	0.37	0.60
3400	49.85	51.23	48.83	0.22	0.39	0.53	0.05	0.38	0.62
3500	41.25	38.14	39.46	0.27	0.45	0.58	0.11	0.48	0.70
3800	41.64	42.65	44.27	0.27	0.45	0.61	0.02	0.40	0.66
4000	39.56	39.08	39.72	0.26	0.44	0.58	0.05	0.43	0.72
4200	38.21	39.47	38.68	0.28	0.48	0.64	0.02	0.45	0.75
4400	36.72	37.08	35.98	0.31	0.52	0.69	0.03	0.49	0.82
4500	36.22	35.40	36.69	0.28	0.50	0.68	0.06	0.51	0.82
4800	33.09	31.74	32.38	0.44	0.72	0.94	0.07	0.56	0.93
5000	27.58	26.23	25.13	0.49	0.95	1.55	0.19	0.68	1.10
5200	20.42	21.70	25.88	2.16	3.04	2.27	0.54	1.04	1.26
5400	26.22	29.42	32.35	1.17	1.18	1.25	0.36	0.80	1.18
5500	29.88	31.14	34.39	0.82	1.03	1.24	0.25	0.76	1.12
5800	37.17	35.00	38.88	0.90	1.25	1.54	0.44	0.90	1.31
6000	27.24	30.82	32.48	1.51	1.53	1.59	0.59	1.06	1.48
6200	25.76	29.57	30.94	0.77	1.06	1.29	0.63	1.22	1.80
6400	34.49	33.45	35.34	0.74	1.01	1.34	0.91	1.94	2.78
6500	31.14	31.61	32.46	0.75	1.10	1.45	1.80	3.94	4.57
6800	28.27	28.29	29.33	0.85	1.21	1.48	1.07	1.55	2.06
7000	27.64	26.61	26.92	0.70	1.14	1.52	0.67	1.35	1.91
7200	24.00	23.50	23.92	0.83	1.29	1.61	0.63	1.42	2.14
7400	20.33	19.82	19.54	0.78	1.28	1.68	0.69	1.72	2.55
7500	19.11	18.14	18.25	0.83	1.39	1.90	0.69	1.87	3.14
7800	13.57	13.53	12.62	1.32	1.90	2.79	2.56	3.97	6.17
8000	9.82	8.74	9.62	2.03	3.62	3.99	5.08	11.50	12.18
8500	8.90	10.54	12.16	1.84	2.18	2.47	2.29	2.96	3.53

REV. X2
 RLP-176+
 100928
 Page 1 of 2



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
 P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Metal Shield Low Pass Filter

RLP-176+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	4.16	4.19	4.20
2	4.17	4.19	4.21
5	4.17	4.20	4.21
10	4.17	4.19	4.21
20	4.17	4.19	4.20
30	4.20	4.22	4.23
40	4.26	4.27	4.29
50	4.35	4.36	4.37
60	4.46	4.47	4.49
70	4.58	4.59	4.61
80	4.72	4.73	4.75
90	4.89	4.90	4.93
100	5.12	5.13	5.16
110	5.43	5.45	5.47
120	5.87	5.89	5.92
130	6.45	6.47	6.50
140	6.98	6.97	6.98
150	7.26	7.24	7.24
160	7.35	7.32	7.31
170	7.31	7.28	7.26
171	7.30	7.27	7.25
172	7.29	7.26	7.24
173	7.28	7.24	7.22
174	7.27	7.23	7.21
175	7.25	7.22	7.20
176	7.24	7.21	7.19
177	7.23	7.20	7.17
178	7.21	7.18	7.16
179	7.20	7.17	7.14
180	7.18	7.15	7.13
181	7.17	7.14	7.11
182	7.15	7.12	7.10
183	7.13	7.10	7.08
184	7.12	7.08	7.06
185	7.10	7.07	7.04
186	7.08	7.05	7.02
187	7.06	7.03	7.00
188	7.04	7.01	6.98
189	7.02	6.99	6.96
190	7.00	6.97	6.94
192	6.96	6.92	6.90
193	6.93	6.90	6.87
194	6.91	6.87	6.85
195	6.89	6.85	6.83
200	6.76	6.72	6.70
210	6.47	6.43	6.40
220	6.12	6.08	6.04
230	5.69	5.65	5.61
240	5.18	5.14	5.11
245	4.88	4.84	4.79
250	4.54	4.53	4.42
260	3.70	3.61	3.65
270	2.46	2.49	2.52
280	0.49	0.46	0.31

REV. X2

RLP-176+

100928

Page 2 of 2



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

