

# Metal Shield Low Pass Filter

# RLP-190+

## 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	0.07	0.09	0.11	42.26	39.84	37.94	42.31	39.84	37.98
5	0.08	0.10	0.13	34.43	33.36	32.46	34.46	33.40	32.50
40	0.22	0.26	0.30	19.85	19.93	20.03	19.86	19.96	20.03
50	0.25	0.29	0.32	19.17	19.54	19.87	19.17	19.54	19.84
100	0.30	0.38	0.44	48.41	47.45	46.30	44.81	43.67	43.48
110	0.34	0.42	0.48	27.38	27.75	28.10	27.46	27.88	28.25
120	0.39	0.47	0.54	22.21	22.50	22.78	22.26	22.59	22.89
130	0.45	0.54	0.61	19.74	19.93	20.10	19.75	19.99	20.18
140	0.50	0.60	0.68	18.75	18.93	19.05	18.75	18.96	19.10
160	0.56	0.68	0.77	21.17	21.70	22.12	21.20	21.72	22.15
180	0.68	0.81	0.93	36.22	33.14	31.31	38.67	34.53	32.24
190	0.80	0.96	1.09	25.18	24.50	24.11	25.00	24.31	23.87
208	1.22	1.48	1.70	23.33	21.51	20.14	21.39	19.92	18.83
216	2.10	2.51	2.85	10.38	9.86	9.40	10.22	9.69	9.25
220	3.13	3.62	4.04	6.84	6.59	6.35	6.78	6.52	6.28
224	4.66	5.21	5.69	4.47	4.39	4.30	4.43	4.37	4.27
228	6.62	7.20	7.70	2.95	2.98	2.98	2.93	2.96	2.97
230	7.71	8.29	8.80	2.42	2.49	2.53	2.42	2.49	2.52
240	13.61	14.14	14.62	1.13	1.25	1.34	1.13	1.26	1.34
250	19.62	20.09	20.53	0.72	0.84	0.93	0.72	0.84	0.93
252	20.77	21.26	21.68	0.67	0.79	0.89	0.69	0.80	0.89
260	25.43	25.87	26.28	0.56	0.66	0.75	0.56	0.67	0.75
264	27.70	28.13	28.54	0.50	0.61	0.70	0.52	0.63	0.71
270	31.08	31.50	31.90	0.45	0.56	0.64	0.45	0.57	0.64
280	36.61	37.09	37.44	0.39	0.50	0.57	0.40	0.50	0.57
290	42.25	42.68	43.10	0.35	0.44	0.52	0.35	0.45	0.52
300	48.36	48.86	49.25	0.32	0.41	0.48	0.32	0.42	0.49
400	71.85	73.69	72.95	0.17	0.26	0.32	0.16	0.25	0.31
500	91.96	80.96	85.55	0.11	0.21	0.28	0.10	0.20	0.27
600	79.75	82.73	83.75	0.07	0.20	0.27	0.06	0.19	0.25
700	81.36	87.07	78.10	0.06	0.19	0.27	0.06	0.18	0.25
800	92.46	75.73	79.18	0.06	0.20	0.30	0.04	0.19	0.26
900	82.91	79.99	83.82	0.03	0.19	0.29	0.04	0.17	0.27
1000	87.00	93.37	99.11	0.05	0.21	0.32	0.03	0.20	0.29
1100	80.48	78.17	85.04	0.03	0.22	0.33	0.02	0.20	0.30
1200	80.41	76.53	76.20	0.04	0.23	0.35	0.02	0.22	0.32
1300	87.39	80.36	80.67	0.03	0.24	0.37	0.02	0.23	0.34
1400	60.76	60.50	59.78	0.06	0.28	0.40	0.04	0.25	0.37
1500	44.86	45.80	46.43	0.04	0.26	0.41	0.08	0.29	0.42
1600	48.66	49.10	49.33	0.05	0.29	0.44	0.03	0.25	0.38
1700	46.39	46.83	47.13	0.08	0.32	0.48	0.05	0.30	0.43
1800	36.67	36.38	36.14	0.12	0.38	0.57	0.07	0.35	0.49
1900	41.43	42.51	43.58	0.09	0.34	0.49	0.08	0.32	0.46
2000	50.60	51.08	51.87	0.07	0.33	0.51	0.04	0.30	0.44
2100	56.09	56.80	57.17	0.10	0.36	0.53	0.07	0.34	0.49
2200	57.46	61.14	59.20	0.09	0.36	0.53	0.07	0.34	0.50
2300	60.62	60.25	62.77	0.10	0.37	0.54	0.09	0.36	0.52
2400	60.65	66.48	62.95	0.11	0.37	0.55	0.10	0.36	0.52
2500	57.98	59.70	63.33	0.11	0.39	0.57	0.09	0.37	0.54
2600	62.43	63.01	58.64	0.13	0.40	0.59	0.10	0.40	0.58
2700	55.97	61.84	59.81	0.13	0.39	0.59	0.12	0.40	0.58
2800	61.79	57.77	55.44	0.13	0.40	0.62	0.11	0.40	0.60
2900	49.78	55.12	53.22	0.14	0.41	0.62	0.15	0.43	0.62
3000	58.02	57.48	60.57	0.11	0.40	0.63	0.09	0.40	0.58

REV. X2

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# RLP-190+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	3.61	3.56	3.60
5	3.59	3.55	3.58
10	3.52	3.54	3.55
20	3.51	3.51	3.52
30	3.47	3.46	3.48
40	3.51	3.50	3.51
50	3.52	3.52	3.54
60	3.58	3.58	3.60
70	3.64	3.65	3.66
80	3.76	3.76	3.77
90	3.88	3.85	3.87
100	3.98	3.98	3.99
110	4.11	4.11	4.13
120	4.25	4.25	4.25
130	4.42	4.42	4.43
140	4.60	4.61	4.63
150	4.89	4.89	4.93
160	5.25	5.28	5.30
170	5.74	5.75	5.79
180	6.34	6.35	6.39
185	6.69	6.72	6.77
190	7.14	7.17	7.22
200	8.23	8.31	8.41
210	10.97	11.05	11.20
220	12.98	12.74	12.53
230	10.35	10.00	9.69
240	7.01	6.81	6.67
250	4.89	4.65	4.65
260	3.50	3.51	3.38
270	2.71	2.63	2.42
280	2.22	2.05	2.08
281	2.08	1.98	2.00
282	2.05	1.94	2.06
283	1.75	2.18	1.91
284	2.05	1.93	1.84
285	1.75	1.88	1.62
286	1.87	1.91	1.72
287	1.85	1.90	1.81
288	2.19	1.77	1.88
289	1.75	1.62	1.57
290	2.00	2.03	1.78
291	1.61	1.60	1.75
292	1.98	1.70	1.52
293	1.68	1.32	1.61
294	1.86	1.55	1.27
295	1.44	1.16	1.32
296	1.61	2.21	1.25
297	1.29	1.76	0.74
298	0.90	0.94	0.40
299	1.07	0.48	1.29
300	1.03	1.14	1.46
306	1.59	0.10	0.65

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