

# Metal Shield Band Pass Filter

# RBP-160+

## 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	98.93	92.75	91.32	0.00	0.00	0.00	0.01	0.01	0.01
40	76.97	78.85	75.50	0.02	0.03	0.03	0.01	0.03	0.04
50	65.89	65.40	65.86	0.04	0.05	0.06	0.02	0.05	0.07
60	54.95	54.84	54.62	0.06	0.08	0.09	0.05	0.08	0.11
70	44.83	44.69	44.50	0.11	0.13	0.15	0.09	0.14	0.17
85	29.59	29.42	29.23	0.30	0.35	0.39	0.28	0.35	0.41
100	12.47	12.35	12.20	1.54	1.77	1.97	1.54	1.78	2.00
105	6.77	6.80	6.76	3.84	4.31	4.74	3.88	4.36	4.81
110	3.15	3.36	3.49	11.28	11.90	12.51	11.65	12.37	13.00
120	1.61	1.83	1.99	18.53	18.54	18.52	18.27	18.14	17.98
130	1.29	1.48	1.62	29.69	30.46	30.77	24.03	23.52	23.09
140	1.15	1.33	1.47	24.97	24.61	24.05	23.36	22.93	22.38
150	1.08	1.25	1.39	24.46	24.51	24.26	25.06	25.23	25.00
165	1.05	1.23	1.36	25.31	25.17	25.22	28.82	28.81	29.14
180	1.09	1.27	1.41	26.24	26.41	26.65	26.25	26.30	26.43
190	1.16	1.35	1.50	26.59	26.16	25.82	25.15	24.94	24.78
200	1.30	1.50	1.67	19.81	19.98	20.11	20.20	20.75	21.27
210	1.49	1.74	1.95	20.11	19.75	19.31	27.70	32.66	45.55
220	2.38	2.78	3.12	11.35	10.67	10.06	12.84	12.12	11.44
230	5.69	6.19	6.64	3.84	3.82	3.74	4.07	4.09	4.04
250	16.13	16.48	16.83	0.85	0.95	1.01	0.87	1.00	1.09
280	28.33	28.55	28.78	0.37	0.44	0.50	0.35	0.45	0.53
340	43.34	43.46	43.57	0.19	0.25	0.30	0.15	0.25	0.32
400	52.20	52.20	52.25	0.13	0.20	0.25	0.09	0.19	0.26
500	60.77	60.58	60.62	0.11	0.18	0.24	0.05	0.16	0.24
600	66.62	66.46	65.93	0.10	0.18	0.25	0.04	0.17	0.26
700	71.05	71.64	71.74	0.11	0.19	0.27	0.05	0.19	0.29
800	76.81	75.23	78.36	0.11	0.20	0.29	0.05	0.21	0.32
900	96.01	91.98	89.22	0.12	0.22	0.31	0.06	0.23	0.34
1000	81.68	81.83	79.64	0.13	0.24	0.34	0.07	0.25	0.38
1100	80.46	78.65	83.98	0.14	0.26	0.36	0.08	0.26	0.40
1200	74.35	73.22	75.84	0.15	0.28	0.38	0.08	0.28	0.42
1300	76.93	75.87	78.50	0.16	0.30	0.40	0.08	0.29	0.44
1400	72.67	75.15	75.73	0.17	0.30	0.42	0.08	0.30	0.45
1500	72.05	75.75	75.77	0.18	0.32	0.43	0.10	0.33	0.48
1600	71.59	74.97	71.51	0.19	0.33	0.44	0.10	0.34	0.50
1700	69.89	73.64	71.66	0.20	0.34	0.45	0.11	0.34	0.51
1800	65.63	69.87	68.52	0.20	0.35	0.46	0.11	0.36	0.52
1900	64.79	68.67	62.29	0.21	0.36	0.47	0.11	0.36	0.53
2000	66.34	67.27	65.45	0.21	0.36	0.47	0.11	0.37	0.54
2100	67.62	64.72	68.94	0.21	0.35	0.46	0.11	0.37	0.54
2200	54.90	59.37	49.85	0.23	0.37	0.49	0.12	0.37	0.56
2300	54.59	56.82	56.42	0.21	0.37	0.48	0.11	0.37	0.55
2400	51.34	54.90	53.08	0.22	0.37	0.47	0.12	0.38	0.56
2500	55.90	54.70	57.84	0.22	0.37	0.47	0.10	0.38	0.56
2600	56.35	54.92	57.44	0.21	0.36	0.47	0.09	0.38	0.56
2700	53.33	53.64	53.43	0.22	0.37	0.47	0.11	0.39	0.57
2800	49.73	52.23	47.57	0.21	0.37	0.47	0.09	0.38	0.59
2900	49.85	48.16	48.92	0.21	0.37	0.48	0.08	0.39	0.57
3000	49.31	47.01	49.68	0.23	0.38	0.49	0.08	0.39	0.58
4000	36.84	36.93	37.58	0.39	0.61	0.83	0.15	0.58	0.85
5000	31.91	30.91	30.52	0.58	0.96	1.26	0.33	0.87	1.34
6000	28.70	25.91	26.51	0.66	1.09	1.44	2.41	5.25	5.57

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RBP-160+  
101010  
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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
120	12.71	12.71	12.71
130	13.25	13.24	13.23
140	13.55	13.52	13.51
150	13.28	13.22	13.17
160	11.84	11.79	11.76
170	10.93	10.93	10.94
180	10.87	10.86	10.87
190	10.87	10.84	10.82
200	10.58	10.53	10.49
210	10.06	10.01	9.96
211	10.00	9.95	9.90
212	9.94	9.89	9.84
213	9.88	9.82	9.78
214	9.82	9.76	9.72
215	9.75	9.70	9.66
216	9.69	9.63	9.59
217	9.63	9.57	9.53
218	9.56	9.51	9.46
219	9.49	9.44	9.40
220	9.43	9.37	9.33
230	8.72	8.67	8.62
240	7.94	7.89	7.84
250	7.08	7.02	6.97
260	6.09	6.02	5.96
270	4.84	4.77	4.71
280	3.53	3.51	3.47
290	2.63	2.63	2.62
300	2.09	2.10	2.11
310	1.75	1.75	1.77
320	1.51	1.52	1.53
330	1.33	1.36	1.34
340	1.20	1.22	1.23
350	1.10	1.11	1.10
360	1.00	1.02	1.00
370	0.95	0.94	0.95
380	0.88	0.87	0.90
390	0.84	0.85	0.83
400	0.79	0.79	0.79
410	0.74	0.72	0.74
420	0.72	0.73	0.73
430	0.67	0.67	0.69
440	0.67	0.65	0.73
450	0.69	0.64	0.68
460	0.61	0.60	0.61
470	0.57	0.61	0.60
480	0.59	0.60	0.58
490	0.56	0.58	0.59
500	0.56	0.55	0.58
500	0.56	0.55	0.58
550	0.49	0.47	0.53
600	0.39	0.35	0.34
650	0.45	0.17	0.53
700	0.48	0.12	0.38
750	0.54	0.86	0.47
800	0.13	0.58	0.12

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