

# Metal Shield Band Pass Filter

# RBP-204+

## 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
1	91.06	93.60	93.84	0.00	0.00	0.00	0.00	0.00	0.00
50	97.54	94.16	93.89	0.01	0.02	0.02	0.00	0.02	0.04
115	47.16	46.94	46.79	0.15	0.20	0.22	0.14	0.20	0.24
135	30.32	29.99	29.73	0.43	0.52	0.59	0.40	0.52	0.60
150	14.88	14.64	14.45	1.55	1.85	2.06	1.49	1.79	2.02
175	2.10	2.44	2.67	19.73	19.05	18.27	19.43	18.35	17.28
204	2.08	2.37	2.56	11.89	12.13	12.41	11.53	11.71	12.00
210	2.18	2.47	2.66	10.93	11.19	11.52	10.48	10.67	10.95
220	2.21	2.52	2.73	11.77	12.07	12.39	10.60	10.74	10.92
230	2.18	2.53	2.78	16.51	16.47	16.37	12.99	13.01	13.00
237	2.32	2.72	3.01	16.93	16.55	16.03	14.75	15.10	15.21
255	5.65	6.46	7.06	5.40	5.21	5.05	7.16	6.90	6.70
260	8.67	9.47	10.06	3.06	3.12	3.14	3.78	3.87	3.90
270	15.69	16.28	16.70	1.30	1.45	1.55	1.45	1.65	1.78
280	21.98	22.40	22.69	0.78	0.92	1.01	0.81	0.99	1.11
300	31.72	32.02	32.16	0.44	0.55	0.62	0.41	0.56	0.66
350	46.77	46.96	47.01	0.22	0.30	0.36	0.18	0.31	0.39
400	55.30	55.40	55.54	0.15	0.24	0.30	0.10	0.24	0.33
500	64.69	65.27	65.07	0.11	0.20	0.26	0.05	0.20	0.30
600	70.93	71.93	71.47	0.10	0.20	0.27	0.04	0.21	0.32
700	79.87	78.91	77.10	0.10	0.22	0.29	0.04	0.23	0.35
800	93.08	102.18	86.37	0.10	0.24	0.32	0.04	0.24	0.38
900	82.33	86.72	83.69	0.11	0.26	0.34	0.04	0.26	0.41
1000	78.83	79.78	78.52	0.13	0.28	0.37	0.05	0.29	0.44
1100	79.63	77.76	80.76	0.14	0.30	0.39	0.06	0.31	0.46
1200	80.21	80.95	78.30	0.15	0.32	0.42	0.07	0.33	0.49
1300	78.43	81.40	83.70	0.16	0.33	0.43	0.08	0.35	0.52
1400	81.51	87.35	79.80	0.17	0.35	0.46	0.09	0.37	0.54
1500	77.15	79.66	73.95	0.19	0.36	0.48	0.10	0.39	0.57
1600	74.46	74.97	70.32	0.20	0.38	0.50	0.11	0.40	0.59
1700	69.11	70.15	71.85	0.20	0.38	0.51	0.11	0.42	0.61
1800	78.75	86.21	77.85	0.21	0.40	0.52	0.11	0.43	0.63
1900	70.19	68.24	68.45	0.21	0.41	0.53	0.11	0.44	0.66
2000	71.30	69.11	72.96	0.22	0.41	0.55	0.11	0.44	0.68
2100	65.17	68.36	65.45	0.22	0.42	0.56	0.10	0.45	0.70
2200	56.57	58.56	63.44	0.23	0.44	0.57	0.11	0.46	0.71
2300	59.15	59.58	61.71	0.22	0.43	0.59	0.10	0.47	0.72
2400	55.83	57.93	51.75	0.23	0.44	0.60	0.10	0.47	0.73
2500	59.22	61.96	51.57	0.23	0.45	0.61	0.10	0.48	0.73
2600	50.94	52.10	51.39	0.23	0.46	0.61	0.10	0.48	0.72
2700	48.76	47.75	50.16	0.25	0.48	0.62	0.11	0.50	0.72
2800	48.04	48.12	53.42	0.26	0.49	0.64	0.10	0.49	0.71
2900	43.58	45.53	48.09	0.25	0.50	0.64	0.10	0.52	0.73
3000	46.17	46.41	47.58	0.24	0.50	0.65	0.10	0.52	0.74
3100	45.88	46.58	49.02	0.25	0.52	0.66	0.12	0.52	0.73
3200	46.11	44.58	45.45	0.24	0.52	0.68	0.07	0.51	0.74
3300	41.92	42.71	42.74	0.27	0.55	0.69	0.07	0.52	0.77
3400	41.45	41.20	42.96	0.29	0.58	0.76	0.08	0.53	0.79
3500	44.11	43.45	43.77	0.36	0.66	0.86	0.11	0.58	0.85
3600	40.23	41.32	48.57	0.39	0.69	0.90	0.13	0.60	0.92
3700	38.77	39.20	39.75	0.40	0.69	0.93	0.13	0.60	0.97
3800	39.77	39.81	37.58	0.37	0.70	0.91	0.08	0.58	0.99
3900	36.92	36.84	36.54	0.38	0.74	0.99	0.11	0.60	1.05
4000	37.52	35.62	36.01	0.44	0.79	1.06	0.14	0.63	1.17

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
175	18.00	17.70	17.46
180	16.06	15.88	15.73
185	14.86	14.75	14.64
190	14.04	13.95	13.87
195	13.38	13.32	13.26
200	12.82	12.77	12.74
204	12.35	12.33	12.32
210	12.04	12.04	12.06
215	11.96	11.97	12.00
220	12.13	12.16	12.19
225	12.54	12.57	12.59
230	13.10	13.14	13.17
235	13.73	13.79	13.83
237	14.09	14.16	14.21
238	14.51	14.60	14.65
240	15.03	15.11	15.15
245	16.24	16.19	16.12
250	17.10	16.81	16.55
255	16.72	16.21	15.79
260	14.82	14.24	13.79
270	9.10	8.88	8.69
280	5.50	5.52	5.50
290	3.76	3.82	3.86
300	2.83	2.86	2.92
310	2.28	2.30	2.34
320	1.90	1.90	1.95
330	1.63	1.60	1.66
340	1.40	1.43	1.40
350	1.26	1.26	1.24
360	1.18	1.22	1.13
370	1.09	1.07	1.06
380	1.03	0.84	0.93
390	0.89	0.82	0.96
400	0.80	0.84	0.92
410	0.76	0.78	0.81
420	0.67	0.74	0.74
430	0.73	0.65	0.73
440	0.60	0.57	0.77
450	0.63	0.47	0.70
460	0.68	0.62	0.78
470	0.65	0.51	0.54
480	0.57	0.58	0.49
490	0.41	0.28	0.58
500	0.52	0.57	0.45
510	0.71	0.39	0.44
520	0.50	0.49	0.28
530	0.71	0.58	0.49
540	0.77	0.41	0.58
550	0.02	0.27	0.59
560	0.67	0.43	0.35
570	0.25	0.59	0.16
580	0.31	0.63	0.79
590	0.85	0.40	0.97
600	0.20	0.34	0.10

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