

Metal Shield Band Pass Filter

RBP-253+

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	90.39	89.44	92.33	0.004	0.001	0.007	0.004	0.004	0.005
50	88.90	90.33	95.76	0.01	0.02	0.02	0.01	0.01	0.03
70	75.71	74.35	76.84	0.02	0.03	0.04	0.03	0.03	0.05
80	68.23	68.19	68.07	0.03	0.04	0.05	0.04	0.04	0.07
100	54.56	54.41	54.34	0.05	0.07	0.09	0.07	0.07	0.10
110	48.17	48.04	47.92	0.08	0.11	0.12	0.10	0.10	0.13
120	41.80	41.67	41.51	0.11	0.14	0.17	0.14	0.14	0.17
130	35.38	35.20	35.02	0.16	0.21	0.24	0.20	0.20	0.25
140	28.67	28.48	28.28	0.26	0.32	0.37	0.32	0.32	0.37
150	21.50	21.27	21.05	0.46	0.55	0.63	0.56	0.56	0.64
160	13.64	13.42	13.21	1.09	1.29	1.46	1.32	1.32	1.51
170	5.88	5.86	5.81	4.09	4.67	5.18	4.87	4.87	5.45
180	2.03	2.29	2.46	17.17	17.30	17.22	21.27	21.27	21.24
186	1.59	1.85	2.04	18.21	17.26	16.67	18.32	18.32	17.51
190	1.47	1.72	1.89	16.66	16.23	16.00	16.22	16.22	15.90
200	1.23	1.45	1.61	20.04	20.13	20.37	18.25	18.25	18.14
300	1.17	1.39	1.56	14.94	14.95	14.96	13.89	13.89	13.85
340	1.63	1.98	2.26	13.75	13.03	12.45	16.57	16.57	16.13
345	1.91	2.32	2.65	11.56	10.85	10.30	13.88	13.88	13.31
380	11.27	11.84	12.29	1.32	1.43	1.50	1.65	1.65	1.75
400	18.34	18.79	19.15	0.62	0.74	0.82	0.82	0.82	0.93
440	29.35	29.63	29.90	0.32	0.41	0.49	0.43	0.43	0.53
500	40.57	40.78	40.96	0.20	0.29	0.36	0.30	0.30	0.39
600	52.08	52.02	52.29	0.14	0.23	0.31	0.24	0.24	0.34
700	59.32	59.06	59.26	0.12	0.22	0.30	0.23	0.23	0.33
800	64.90	65.09	64.26	0.11	0.22	0.31	0.23	0.23	0.35
900	71.57	70.36	70.73	0.13	0.24	0.34	0.24	0.24	0.36
1000	82.48	81.20	81.78	0.13	0.26	0.36	0.26	0.26	0.39
1100	82.31	85.67	80.44	0.14	0.27	0.38	0.27	0.27	0.42
1200	74.28	75.66	74.55	0.15	0.28	0.40	0.29	0.29	0.44
1300	72.39	72.45	71.09	0.15	0.30	0.42	0.30	0.30	0.46
1400	68.75	70.05	70.45	0.16	0.31	0.43	0.32	0.32	0.47
1500	66.98	68.26	69.19	0.17	0.32	0.44	0.32	0.32	0.48
1600	66.58	67.28	66.65	0.18	0.34	0.46	0.34	0.34	0.50
1700	68.37	69.50	69.74	0.19	0.35	0.47	0.34	0.34	0.51
1800	63.18	64.25	64.25	0.19	0.36	0.48	0.35	0.35	0.52
1900	60.77	61.38	62.43	0.20	0.37	0.49	0.36	0.36	0.53
2000	66.39	69.29	66.40	0.20	0.37	0.49	0.36	0.36	0.53
2100	58.96	59.18	59.02	0.21	0.38	0.50	0.36	0.36	0.54
2200	65.79	67.74	66.01	0.21	0.37	0.50	0.37	0.37	0.54
2300	67.51	68.88	67.76	0.20	0.37	0.49	0.36	0.36	0.54
2400	59.96	61.99	64.54	0.21	0.38	0.49	0.37	0.37	0.55
2500	61.46	61.62	62.67	0.21	0.38	0.49	0.36	0.36	0.55
2600	56.84	55.91	56.74	0.21	0.38	0.49	0.37	0.37	0.55
2700	52.26	53.51	51.07	0.21	0.38	0.50	0.38	0.38	0.56
2800	48.91	48.98	47.40	0.21	0.38	0.50	0.38	0.38	0.57
2900	47.64	48.26	49.23	0.22	0.39	0.51	0.38	0.38	0.57
3000	50.21	50.02	50.30	0.23	0.40	0.53	0.38	0.38	0.59
3500	42.52	41.59	42.71	0.23	0.43	0.55	0.45	0.45	0.68
4000	33.37	32.85	32.27	0.33	0.58	0.79	0.56	0.56	0.88
4500	25.76	31.62	38.30	1.34	1.15	1.16	0.84	0.84	1.12
5000	36.90	34.38	32.89	0.55	0.89	1.15	1.00	1.00	1.63
5500	17.92	17.28	19.75	0.85	1.47	1.70	6.75	6.75	5.62
6000	25.63	27.80	29.71	0.64	1.05	1.44	1.50	1.50	2.07

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
186	9.97	9.97	9.97
187	10.01	10.01	10.01
188	10.05	10.04	10.05
189	10.08	10.07	10.08
190	10.11	10.10	10.11
200	10.33	10.30	10.29
210	10.22	10.16	10.12
220	9.44	9.35	9.29
230	8.26	8.20	8.17
240	7.51	7.49	7.48
250	7.07	7.06	7.06
260	6.79	6.79	6.79
270	6.64	6.64	6.65
280	6.59	6.60	6.62
290	6.64	6.66	6.68
300	6.82	6.85	6.88
310	7.14	7.16	7.18
320	7.46	7.45	7.44
330	7.60	7.56	7.54
340	7.53	7.48	7.44
350	7.30	7.24	7.19
360	6.94	6.87	6.82
370	6.48	6.41	6.35
380	5.93	5.85	5.78
390	5.26	5.17	5.10
400	4.44	4.36	4.29
405	4.00	3.93	3.87
410	3.57	3.51	3.46
415	3.17	3.13	3.09
420	2.83	2.79	2.77
425	2.53	2.51	2.50
430	2.29	2.28	2.27
440	1.91	1.91	1.91
450	1.65	1.65	1.65
460	1.45	1.46	1.46
470	1.30	1.31	1.32
480	1.18	1.19	1.20
490	1.09	1.10	1.10
500	1.02	1.02	1.02
510	0.94	0.95	0.96
520	0.89	0.89	0.90
530	0.84	0.85	0.85
540	0.80	0.82	0.82
550	0.76	0.77	0.77
560	0.72	0.71	0.73
570	0.68	0.70	0.71
580	0.69	0.69	0.69
590	0.65	0.64	0.65
600	0.66	0.63	0.62
650	0.51	0.60	0.57
700	0.41	0.49	0.51
750	0.58	0.40	0.36
800	0.57	0.59	0.48
850	0.31	0.37	0.28

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