

Metal Shield Band Pass Filter

RBP-173+

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
0.3	85.87	87.42	89.09	0.03	0.05	0.05	0.00	0.00	0.01
10	83.31	82.94	82.86	0.05	0.07	0.06	0.00	0.00	0.00
20	71.76	71.41	71.59	0.07	0.09	0.09	0.00	0.00	0.00
80	45.75	45.72	45.66	0.21	0.25	0.25	0.04	0.05	0.05
100	41.45	41.44	41.42	0.30	0.35	0.35	0.10	0.13	0.14
129	31.82	31.27	30.75	0.68	0.77	0.83	0.61	0.72	0.81
135	20.99	20.64	20.29	1.00	1.14	1.24	1.16	1.36	1.53
142	9.88	9.77	9.64	2.59	2.91	3.19	3.88	4.47	5.02
147	4.47	4.65	4.79	7.05	7.44	7.73	14.46	16.53	18.60
160	2.15	2.36	2.53	13.10	13.35	13.56	13.53	13.95	14.36
170	1.75	1.97	2.14	22.81	22.83	22.27	35.09	37.77	38.71
185	2.15	2.41	2.64	16.36	16.77	16.88	16.94	16.95	16.86
198	5.64	6.09	6.49	5.29	5.46	5.60	5.34	5.42	5.40
207	12.40	12.87	13.28	1.99	2.12	2.23	2.02	2.17	2.25
220	23.76	24.16	24.52	0.84	0.92	0.97	0.86	0.98	1.05
230	32.45	32.84	33.19	0.58	0.64	0.67	0.58	0.68	0.74
240	42.20	42.62	43.05	0.45	0.50	0.52	0.44	0.51	0.56
245	48.55	49.07	49.54	0.40	0.45	0.47	0.38	0.46	0.51
260	54.11	53.99	53.63	0.32	0.36	0.37	0.28	0.34	0.38
270	50.42	50.48	50.38	0.29	0.33	0.34	0.24	0.29	0.33
280	49.62	49.73	49.66	0.27	0.31	0.31	0.21	0.25	0.29
290	49.83	49.97	49.94	0.25	0.29	0.30	0.18	0.22	0.26
300	50.57	50.74	50.63	0.24	0.28	0.28	0.16	0.20	0.23
400	71.09	71.01	70.17	0.20	0.24	0.25	0.08	0.12	0.14
500	61.25	61.40	61.79	0.19	0.24	0.25	0.06	0.10	0.13
700	56.94	57.14	57.42	0.19	0.24	0.25	0.07	0.12	0.16
800	57.54	57.28	57.91	0.19	0.24	0.25	0.09	0.14	0.18
900	58.16	58.23	58.81	0.20	0.24	0.26	0.10	0.16	0.20
1000	59.81	60.10	60.55	0.20	0.25	0.27	0.12	0.17	0.23
1200	69.53	70.74	70.59	0.19	0.25	0.28	0.15	0.21	0.27
1400	58.49	57.87	57.44	0.24	0.31	0.36	0.18	0.26	0.32
1500	50.58	49.97	49.96	0.46	0.56	0.63	0.20	0.28	0.35
1800	57.99	57.81	58.82	0.26	0.34	0.43	0.24	0.33	0.42
2000	62.20	60.53	59.17	0.16	0.25	0.33	0.25	0.34	0.42
2200	55.48	52.44	52.90	0.16	0.26	0.37	0.25	0.34	0.41
2400	48.27	47.60	47.44	0.19	0.30	0.41	0.24	0.35	0.41
2500	45.32	45.78	45.08	0.19	0.32	0.42	0.23	0.35	0.41
2800	43.12	42.84	46.42	0.27	0.41	0.54	0.22	0.37	0.49
3000	40.17	40.49	41.15	0.35	0.50	0.64	0.21	0.39	0.49
3200	38.83	38.69	39.95	0.47	0.62	0.76	0.30	0.39	0.57
3400	39.32	35.97	35.45	0.73	0.92	1.08	0.57	1.00	1.11
3500	33.04	33.57	33.67	1.21	1.44	1.63	0.40	0.49	0.68
3800	34.17	33.83	34.12	1.04	1.24	1.40	0.27	0.45	0.68
4000	31.85	31.73	31.70	0.76	0.98	1.19	0.34	0.53	0.78
4200	31.08	31.11	31.23	1.11	1.29	1.55	0.41	0.62	0.91
4400	32.87	32.75	33.08	0.57	0.85	1.09	0.56	0.76	0.96
4500	31.72	31.50	31.56	0.46	0.74	0.98	0.57	0.86	1.16
4800	26.41	25.07	25.27	0.37	0.67	0.94	1.26	1.68	2.33
5000	19.90	22.42	23.80	0.51	0.75	1.07	6.09	4.74	4.47
5200	35.04	36.16	36.70	0.42	0.68	1.02	1.33	1.58	1.93
5400	41.71	41.58	39.12	0.46	0.81	1.13	1.10	1.35	1.54
5500	30.64	36.31	35.86	0.65	0.93	1.25	1.21	1.32	1.52
5800	30.80	28.64	30.66	0.94	1.47	1.83	0.99	1.33	1.57
6000	25.83	25.10	25.13	1.65	2.37	3.10	1.20	1.48	1.88

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
160	16.90	16.76	16.67
170	15.24	15.17	15.15
185	16.43	16.46	16.52
198	18.92	18.64	18.27
200	17.95	17.56	17.23
207	12.59	12.32	12.01
220	5.76	5.74	5.62
230	3.29	3.13	3.24
240	0.68	0.87	0.14
245	2.31	3.81	6.18
260	3.91	4.61	0.43
270	0.11	0.36	1.83
280	0.26	1.38	0.62
290	0.12	0.34	1.85
300	0.10	1.38	0.53
320	1.34	3.39	1.30
340	0.62	0.55	0.15
350	3.31	1.14	1.13
360	1.43	0.39	3.28
370	2.46	7.78	1.75
380	0.08	0.48	11.76
400	4.90	12.23	4.72
420	7.24	0.35	39.75
430	9.84	20.22	14.23
440	13.21	7.98	2.10
450	0.42	7.46	6.18
460	7.04	3.50	6.12
470	1.98	1.93	7.48
480	5.48	1.11	6.36
500	3.18	0.26	0.90
520	2.71	0.47	2.94
530	1.30	2.46	1.44
540	0.53	0.42	1.41
550	1.16	0.51	4.00
560	2.46	3.08	0.51
570	4.14	0.49	3.94
580	2.28	1.06	0.37
600	1.32	1.97	0.38
620	2.82	1.35	2.75
630	0.81	2.56	2.99
640	0.20	1.26	2.31
650	0.15	3.04	2.59
660	1.30	0.01	3.84
670	1.78	2.34	1.32
680	0.43	0.24	4.10
690	4.74	1.18	5.08
720	1.53	3.20	0.32
730	0.70	1.24	1.18
740	0.16	4.79	1.08
750	0.46	2.22	2.79
760	2.91	0.65	0.21
770	0.25	0.22	2.54
780	0.13	2.71	4.31
800	2.29	0.71	1.28

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