

Surface Mount Band Pass Filter

BPF-A176+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURNLOSS (dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
1.0	88.21	100.33	89.46	0.57	0.76	0.90	0.55	0.76	0.90
10.0	93.82	88.99	88.73	0.58	0.75	0.88	0.59	0.77	0.89
15.0	96.29	95.08	87.82	0.55	0.71	0.82	0.54	0.69	0.80
20.0	82.74	90.24	86.57	0.48	0.61	0.71	0.48	0.61	0.70
25.0	83.77	84.01	88.89	0.43	0.55	0.62	0.43	0.54	0.61
30.0	89.88	92.79	88.05	0.39	0.48	0.54	0.39	0.48	0.54
35.0	95.75	93.40	91.36	0.34	0.42	0.47	0.34	0.41	0.47
40.0	92.84	94.86	94.48	0.30	0.37	0.42	0.30	0.36	0.41
45.0	89.21	83.84	96.27	0.27	0.33	0.37	0.28	0.33	0.37
50.0	82.65	101.10	88.16	0.25	0.29	0.33	0.24	0.30	0.34
55.0	95.19	91.92	95.01	0.22	0.26	0.31	0.22	0.28	0.31
60.0	92.63	89.22	95.06	0.21	0.25	0.28	0.19	0.25	0.27
65.0	85.65	91.61	88.57	0.18	0.22	0.24	0.16	0.22	0.25
70.0	88.73	88.96	94.56	0.17	0.21	0.23	0.16	0.21	0.24
80.0	89.48	94.88	89.19	0.13	0.17	0.18	0.11	0.17	0.20
90.0	86.74	84.53	97.70	0.12	0.15	0.17	0.10	0.15	0.17
100.0	91.02	90.67	109.36	0.10	0.13	0.16	0.07	0.12	0.15
150.0	71.97	70.09	69.82	0.14	0.21	0.25	0.11	0.18	0.22
155.0	59.64	58.81	57.95	0.22	0.33	0.40	0.17	0.28	0.34
160.0	45.01	43.38	42.20	0.51	0.72	0.87	0.35	0.53	0.64
162.0	37.53	35.71	34.33	0.81	1.15	1.40	0.53	0.77	0.94
166.0	17.82	15.94	14.71	4.06	6.41	8.38	2.05	3.13	4.06
168.5	7.00	7.30	7.43	19.79	16.30	15.91	9.01	11.05	12.35
170.0	5.22	5.89	6.24	15.09	15.59	15.77	15.57	15.64	14.99
175.0	4.10	4.86	5.31	17.06	18.42	19.15	16.45	17.23	17.44
175.5	4.06	4.85	5.31	19.07	19.39	19.57	17.69	17.74	17.84
176.0	4.05	4.87	5.35	20.03	19.46	19.39	18.13	17.96	18.32
176.5	4.06	4.90	5.40	19.72	19.02	18.99	18.06	18.41	19.33
177.0	4.11	4.97	5.48	19.01	18.57	18.45	18.23	19.52	21.24
180.0	4.89	6.06	6.78	12.57	11.11	10.48	15.96	14.14	13.58
182.5	6.81	8.91	10.42	7.89	6.97	6.28	18.54	19.29	14.71
185.0	15.98	18.91	20.65	2.44	2.35	2.31	4.33	3.94	3.70
190.0	35.33	36.86	37.86	0.76	0.88	0.95	1.01	1.17	1.23
200.0	56.67	57.48	58.08	0.32	0.41	0.46	0.35	0.47	0.54
250.0	89.50	92.20	86.09	0.10	0.16	0.21	0.08	0.16	0.21
300.0	90.90	85.59	90.33	0.07	0.14	0.18	0.03	0.13	0.18
350.0	88.77	92.96	83.90	0.06	0.13	0.19	0.02	0.13	0.19
400.0	88.69	86.78	98.07	0.06	0.13	0.20	0.01	0.14	0.19
500.0	88.07	92.38	88.48	0.06	0.17	0.22	0.01	0.16	0.23
600.0	89.52	85.05	95.54	0.07	0.18	0.25	0.01	0.18	0.25
700.0	95.99	84.28	85.70	0.10	0.22	0.31	0.03	0.21	0.30
800.0	87.75	88.60	88.11	0.12	0.25	0.35	0.04	0.24	0.34
900.0	86.85	90.52	92.75	0.14	0.29	0.38	0.05	0.26	0.36
1000.0	81.48	94.83	101.37	0.15	0.29	0.40	0.06	0.29	0.39
1100.0	92.46	85.57	79.83	0.16	0.33	0.43	0.06	0.29	0.40
1200.0	86.82	86.57	93.08	0.17	0.33	0.44	0.09	0.33	0.42
1300.0	76.18	87.48	76.25	0.22	0.37	0.49	0.10	0.35	0.43
1400.0	76.29	70.63	74.49	0.21	0.38	0.51	0.12	0.37	0.46
1500.0	75.13	81.14	81.10	0.23	0.40	0.53	0.12	0.37	0.46
1600.0	71.36	73.93	70.20	0.24	0.42	0.53	0.12	0.38	0.47
1700.0	72.13	75.05	72.63	0.24	0.42	0.55	0.14	0.40	0.50
1800.0	78.03	66.36	78.68	0.24	0.43	0.56	0.12	0.38	0.49
1900.0	63.06	68.33	64.55	0.24	0.43	0.57	0.27	0.44	0.54
2000.0	48.64	46.81	47.74	0.28	0.48	0.61	0.13	0.42	0.54

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
174.00	81.01	80.31	79.86
174.25	80.77	80.20	79.64
174.50	80.72	80.01	79.54
174.75	80.52	79.96	79.38
175.00	80.43	79.78	79.44
175.25	80.32	79.61	79.22
175.50	80.32	79.78	79.41
175.75	80.25	79.72	79.51
176.00	80.01	79.62	79.56
176.25	80.08	79.84	79.75
176.50	80.16	80.10	80.06
176.75	80.00	80.25	80.33
177.00	80.37	80.53	80.66
177.25	80.57	80.90	80.90
177.50	80.86	81.26	81.25
177.75	81.25	81.72	81.96
178.00	81.83	82.11	82.44

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