

# Surface Mount Band Pass Filter

# BPF-A175+

## 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
0.5	92.01	107.18	99.89	0.01	0.01	0.00	0.00	0.00	0.01
10	92.75	103.44	94.16	0.00	0.00	0.00	0.00	0.00	0.01
20	87.84	93.47	92.91	0.01	0.00	0.01	0.00	0.01	0.02
30	101.11	85.11	85.45	0.00	0.00	0.01	0.02	0.04	0.06
40	90.47	87.90	107.52	0.01	0.02	0.02	0.02	0.05	0.07
50	87.26	83.48	100.97	0.01	0.02	0.02	0.00	0.05	0.07
60	107.54	91.01	85.23	0.01	0.03	0.03	0.01	0.05	0.09
70	83.33	92.30	90.92	0.02	0.03	0.03	0.09	0.13	0.17
80	100.52	88.84	87.96	0.03	0.04	0.04	0.10	0.15	0.18
90	85.30	96.36	90.64	0.03	0.04	0.05	0.15	0.18	0.23
100	93.29	84.64	96.99	0.03	0.05	0.07	0.20	0.24	0.28
110	83.93	89.59	84.82	0.05	0.07	0.09	0.28	0.33	0.39
120	98.61	83.16	86.46	0.07	0.10	0.13	0.38	0.46	0.54
130	73.24	74.06	73.20	0.10	0.14	0.18	0.56	0.67	0.77
140	58.24	57.58	57.52	0.19	0.23	0.30	0.90	1.08	1.24
144	50.48	49.99	49.50	0.24	0.30	0.38	1.05	1.26	1.45
150	37.45	36.85	36.23	0.43	0.53	0.64	1.41	1.71	1.96
154	27.28	26.64	25.92	0.72	0.90	1.07	1.79	2.18	2.51
160	8.97	8.66	8.32	4.22	5.33	6.48	5.43	6.84	8.27
170	2.62	3.06	3.40	26.89	25.05	23.82	26.23	25.08	23.94
175	2.58	3.01	3.36	19.06	19.99	20.67	18.25	18.67	18.80
180	2.66	3.14	3.52	26.92	28.37	29.09	22.34	22.22	22.30
190	5.13	6.23	7.23	22.79	28.51	22.05	9.25	8.87	8.50
200	32.18	33.52	34.74	1.06	1.18	1.26	1.83	2.07	2.27
208	52.68	53.63	54.35	0.49	0.58	0.64	1.24	1.43	1.60
210	56.54	57.17	57.47	0.42	0.51	0.57	1.12	1.31	1.46
220	67.26	68.14	69.12	0.26	0.32	0.37	0.70	0.84	0.95
230	87.91	82.80	81.35	0.18	0.23	0.28	0.46	0.57	0.67
240	76.68	78.50	77.81	0.13	0.19	0.24	0.34	0.44	0.52
250	79.24	78.25	78.42	0.11	0.16	0.21	0.28	0.36	0.44
300	91.75	85.36	94.07	0.07	0.12	0.17	0.16	0.22	0.30
350	87.29	84.11	91.46	0.07	0.12	0.18	0.14	0.20	0.26
400	86.13	80.43	77.77	0.08	0.14	0.19	0.14	0.20	0.27
450	75.36	77.86	79.14	0.09	0.14	0.22	0.15	0.21	0.27
500	75.92	75.32	79.53	0.09	0.15	0.23	0.15	0.21	0.28
550	74.70	73.70	74.73	0.11	0.16	0.25	0.15	0.22	0.29
600	72.77	73.01	73.02	0.12	0.18	0.27	0.16	0.23	0.30
650	72.14	70.37	72.55	0.12	0.18	0.28	0.17	0.25	0.32
700	68.21	69.54	71.59	0.13	0.19	0.29	0.18	0.26	0.34
750	68.13	68.23	68.60	0.15	0.20	0.31	0.19	0.29	0.37
800	67.53	67.62	68.53	0.15	0.20	0.31	0.27	0.38	0.49
850	66.87	67.85	68.31	0.16	0.21	0.31	1.00	1.35	1.70
900	75.54	74.45	70.25	0.15	0.22	0.31	1.91	2.04	2.12
950	69.92	68.92	70.45	0.17	0.22	0.32	0.38	0.50	0.61
1000	72.57	68.64	68.80	0.17	0.22	0.32	0.23	0.35	0.45
1050	69.18	64.97	69.10	0.17	0.22	0.32	0.18	0.31	0.42
1100	64.96	65.78	62.75	0.20	0.23	0.32	0.16	0.29	0.42
1150	67.48	64.43	66.77	0.20	0.24	0.33	0.18	0.32	0.43
1200	70.91	65.94	70.93	0.19	0.23	0.32	0.14	0.30	0.41
1250	57.05	61.95	56.59	0.22	0.26	0.35	0.16	0.33	0.46
1300	62.21	62.72	61.02	0.22	0.26	0.34	0.14	0.34	0.49
1350	57.61	57.98	58.65	0.18	0.23	0.31	0.55	0.65	0.72
1400	61.51	61.39	60.21	0.22	0.27	0.34	0.14	0.35	0.51
1450	61.00	59.62	59.54	0.20	0.26	0.33	0.12	0.34	0.53
1500	58.89	57.21	52.76	0.22	0.27	0.36	0.15	0.37	0.58

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# BPF-A175+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
170.0	50.39	49.87	49.46
170.5	49.72	49.24	48.85
171.0	49.02	48.65	48.23
171.5	48.43	48.08	47.74
172.0	47.92	47.62	47.33
172.5	47.39	47.11	46.97
173.0	46.92	46.78	46.58
173.5	46.57	46.40	46.37
174.0	46.30	46.22	46.06
174.5	46.04	45.95	45.93
175.0	45.85	45.92	45.84
175.5	45.74	45.75	45.77
176.0	45.75	45.81	45.84
176.5	45.75	45.80	45.92
177.0	45.76	45.88	46.03
177.5	45.80	45.93	46.09
178.0	46.00	46.19	46.38
178.5	46.11	46.32	46.48
179.0	46.40	46.59	46.86
179.5	46.61	46.90	47.09
180.0	46.98	47.17	47.54

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