

# Surface Mount Band Pass Filter

# BPF-A69+

## 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	96.07	94.68	96.71	0.01	0.01	0.01	0.00	0.00	0.00
2	93.14	91.02	92.18	0.01	0.00	0.01	0.00	0.00	0.00
4	94.17	94.63	96.34	0.01	0.02	0.03	0.05	0.06	0.06
6	90.19	88.53	88.32	0.03	0.03	0.01	0.04	0.03	0.06
8	101.44	98.43	97.46	0.02	0.01	0.02	0.06	0.08	0.09
10	86.86	89.85	88.25	0.02	0.03	0.04	0.10	0.12	0.12
20	74.74	74.85	76.89	0.07	0.07	0.09	0.17	0.21	0.25
30	60.03	60.05	59.56	0.21	0.24	0.27	0.42	0.46	0.51
40	27.40	27.22	27.09	0.53	0.60	0.69	0.74	0.86	0.96
50	5.73	5.81	5.88	4.13	4.49	4.82	4.28	4.66	5.01
60	1.19	1.35	1.48	29.27	29.60	29.54	29.72	29.10	28.45
70	1.10	1.23	1.35	17.76	17.49	17.41	18.18	18.03	17.97
80	1.33	1.47	1.62	20.86	21.10	21.39	22.76	23.27	23.65
90	6.59	7.03	7.41	4.33	4.36	4.42	4.77	4.71	4.81
100	34.37	34.94	35.31	1.05	1.16	1.26	1.13	1.22	1.31
110	63.19	63.42	62.55	0.82	0.91	1.02	0.61	0.66	0.71
120	77.32	76.21	81.95	0.76	0.86	0.95	0.40	0.45	0.50
130	74.56	73.97	77.85	0.72	0.81	0.90	0.27	0.31	0.36
140	76.07	84.82	76.73	0.68	0.78	0.86	0.21	0.25	0.30
150	92.80	86.01	101.11	0.60	0.70	0.77	0.19	0.22	0.26
160	80.46	78.77	78.11	0.53	0.63	0.69	0.18	0.22	0.28
170	80.24	76.42	76.14	0.46	0.55	0.63	0.13	0.17	0.22
180	79.87	74.35	78.39	0.42	0.50	0.57	0.11	0.16	0.23
190	78.10	78.45	79.11	0.36	0.47	0.53	0.12	0.14	0.20
200	83.34	79.57	85.96	0.37	0.42	0.50	0.13	0.19	0.24
210	84.94	83.63	81.64	0.30	0.40	0.45	0.12	0.14	0.20
220	81.29	85.98	87.46	0.29	0.35	0.42	0.10	0.15	0.21
230	85.13	90.41	99.43	0.27	0.34	0.40	0.10	0.15	0.21
240	85.08	92.09	90.66	0.24	0.33	0.39	0.11	0.13	0.20
250	91.25	90.51	85.89	0.24	0.29	0.35	0.11	0.16	0.23
260	87.83	92.88	91.64	0.22	0.30	0.37	0.11	0.15	0.21
270	89.63	87.85	87.62	0.24	0.29	0.36	0.09	0.12	0.18
280	90.93	98.92	95.91	0.22	0.27	0.33	0.11	0.17	0.24
290	87.54	90.36	103.39	0.22	0.29	0.35	0.11	0.14	0.21
300	96.79	100.77	79.12	0.21	0.23	0.32	0.10	0.16	0.22
310	82.18	79.81	84.04	0.20	0.29	0.33	0.08	0.15	0.22
320	83.86	80.62	83.19	0.23	0.30	0.35	0.11	0.12	0.21
330	80.52	82.26	81.57	0.21	0.23	0.31	0.10	0.18	0.24
340	78.41	79.38	77.44	0.22	0.30	0.33	0.11	0.15	0.23
350	77.16	75.97	75.36	0.23	0.25	0.33	0.11	0.15	0.21
360	76.65	73.06	75.57	0.18	0.23	0.28	0.10	0.18	0.24
370	74.61	72.93	74.35	0.24	0.32	0.34	0.10	0.14	0.21
380	73.09	72.65	73.09	0.23	0.24	0.32	0.10	0.15	0.21
390	72.12	72.11	71.54	0.18	0.25	0.28	0.10	0.18	0.24
400	71.77	72.08	69.83	0.24	0.30	0.35	0.10	0.14	0.21
410	70.02	70.76	69.98	0.21	0.24	0.31	0.11	0.16	0.23
420	70.11	70.33	68.64	0.19	0.28	0.29	0.12	0.20	0.26
430	68.68	69.86	69.11	0.26	0.28	0.35	0.10	0.13	0.22
440	69.18	69.79	68.43	0.22	0.24	0.30	0.11	0.18	0.24
450	67.82	67.94	69.53	0.20	0.28	0.30	0.11	0.18	0.26
460	66.90	68.33	68.15	0.27	0.27	0.36	0.10	0.14	0.21
470	67.70	67.00	68.47	0.19	0.26	0.29	0.12	0.20	0.26
480	67.84	67.95	68.07	0.24	0.29	0.32	0.13	0.19	0.26
490	68.57	68.45	68.56	0.28	0.28	0.36	0.10	0.15	0.21
500	67.48	67.81	68.33	0.21	0.28	0.29	0.11	0.20	0.26

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
55.0	45.41	44.86	44.47
55.5	43.85	43.45	43.04
56.0	42.40	41.95	41.64
56.5	41.02	40.63	40.36
57.0	39.75	39.44	39.20
57.5	38.61	38.39	38.17
58.0	37.61	37.35	37.17
58.5	36.65	36.52	36.41
59.0	35.98	35.83	35.71
59.5	35.29	35.13	35.01
60.0	34.77	34.65	34.48
60.5	34.17	34.08	33.98
61.0	33.76	33.57	33.45
61.5	33.19	33.11	33.02
62.0	32.78	32.71	32.68
62.5	32.33	32.24	32.25
63.0	32.01	31.94	31.94
63.5	31.68	31.67	31.68
64.0	31.37	31.37	31.29
64.5	31.13	31.12	31.04
65.0	30.91	30.83	30.82
65.5	30.70	30.61	30.64
66.0	30.44	30.39	30.39
66.5	30.31	30.22	30.25
67.0	30.14	30.15	30.13
67.5	30.01	30.06	30.03
68.0	29.90	29.94	29.87
68.5	29.87	29.92	29.82
69.0	29.79	29.77	29.77
69.5	29.73	29.76	29.69
70.0	29.71	29.69	29.64
70.5	29.66	29.66	29.67
71.0	29.63	29.64	29.67
71.5	29.69	29.79	29.76
72.0	29.81	29.80	29.91
72.5	29.91	29.95	30.01
73.0	30.07	30.13	30.12
73.5	30.31	30.32	30.41
74.0	30.43	30.47	30.56
74.5	30.63	30.66	30.70
75.0	30.83	30.92	30.99
75.5	31.14	31.21	31.27
76.0	31.38	31.52	31.48
76.5	31.70	31.83	31.86
77.0	32.11	32.26	32.29
77.5	32.52	32.63	32.70
78.0	32.95	33.08	33.15
78.5	33.41	33.55	33.66
79.0	33.97	34.08	34.18
79.5	34.48	34.68	34.77
80.0	35.12	35.34	35.45
80.5	35.79	36.09	36.19
81.0	36.57	36.83	36.99
82.0	38.25	38.48	38.76
83.0	40.39	40.68	40.93

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