

# Surface Mount Band Pass Filter

# BPF-A122+

## 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	91.81	98.03	88.21	0.01	0.01	0.01	0.01	0.01	0.01
1	95.33	98.28	95.57	0.00	0.00	0.00	0.00	0.00	0.00
10	99.14	97.19	108.30	0.00	0.01	0.01	0.01	0.01	0.01
20	111.30	89.59	94.09	0.01	0.01	0.02	0.00	0.02	0.03
30	95.68	97.66	88.73	0.02	0.03	0.03	0.01	0.03	0.06
40	89.76	95.44	98.62	0.03	0.04	0.05	0.02	0.05	0.08
50	93.91	91.67	94.56	0.04	0.05	0.07	0.04	0.06	0.10
60	94.70	93.86	97.62	0.05	0.06	0.08	0.05	0.07	0.11
70	90.86	100.69	87.92	0.06	0.08	0.10	0.06	0.08	0.12
80	83.54	82.60	80.63	0.08	0.09	0.12	0.07	0.10	0.13
90	73.15	72.53	72.54	0.11	0.13	0.16	0.10	0.13	0.17
100	58.83	58.72	58.47	0.17	0.21	0.25	0.17	0.21	0.26
105	49.16	48.90	48.45	0.26	0.31	0.37	0.27	0.33	0.40
110	35.44	34.90	34.37	0.52	0.63	0.74	0.56	0.69	0.83
111	31.90	31.31	30.73	0.63	0.77	0.92	0.69	0.86	1.03
115	13.35	12.80	12.32	2.80	3.54	4.38	3.30	4.27	5.37
116	8.39	8.27	8.24	5.80	7.21	8.72	7.02	9.04	11.23
117	5.30	5.66	6.00	12.68	14.75	17.07	16.72	21.32	27.09
118	4.09	4.61	5.08	25.31	30.32	35.05	28.35	26.00	23.96
119	3.66	4.20	4.70	24.80	22.28	20.16	20.37	19.24	18.37
120	3.50	4.04	4.53	16.85	16.43	16.12	16.33	16.09	16.02
121	3.43	3.95	4.44	15.21	15.59	16.07	15.50	16.05	16.76
122	3.35	3.89	4.40	17.06	17.82	18.46	18.53	19.91	21.18
123	3.34	3.92	4.48	20.38	19.85	18.99	27.29	25.20	22.42
124	3.46	4.07	4.67	18.43	17.77	17.15	20.40	19.11	17.89
125	3.65	4.31	4.96	17.26	17.61	17.92	17.42	17.51	17.32
126	3.91	4.65	5.39	20.48	21.64	22.66	19.60	20.26	20.00
127	4.38	5.30	6.22	27.32	27.56	27.98	23.53	21.48	19.37
128	5.42	6.71	8.03	32.83	24.14	19.62	16.33	14.03	12.38
129	8.17	10.09	11.92	10.98	9.50	8.49	7.92	6.88	6.23
130	13.56	15.68	17.59	4.64	4.44	4.30	3.53	3.38	3.31
131	19.89	21.79	23.52	2.47	2.54	2.62	1.92	2.00	2.08
132	25.85	27.50	29.03	1.59	1.70	1.82	1.26	1.37	1.49
137	47.92	48.90	49.89	0.50	0.57	0.67	0.43	0.51	0.60
140	57.11	57.82	58.64	0.35	0.40	0.48	0.30	0.37	0.45
150	74.70	74.52	74.95	0.18	0.22	0.27	0.16	0.20	0.27
160	78.80	79.63	79.01	0.14	0.17	0.22	0.11	0.16	0.22
170	79.44	79.30	79.58	0.13	0.15	0.20	0.09	0.14	0.20
180	79.56	78.93	79.84	0.12	0.14	0.19	0.09	0.13	0.19
190	79.93	81.07	80.06	0.12	0.14	0.19	0.08	0.13	0.18
200	78.45	77.52	80.28	0.11	0.14	0.18	0.08	0.12	0.17
210	77.85	77.81	77.87	0.11	0.14	0.18	0.08	0.12	0.17
220	77.10	78.22	76.51	0.12	0.14	0.19	0.08	0.12	0.17
230	76.95	76.74	77.03	0.12	0.14	0.18	0.08	0.12	0.17
240	76.08	77.55	76.19	0.12	0.14	0.19	0.07	0.12	0.17
250	77.29	75.15	76.96	0.12	0.14	0.19	0.08	0.12	0.17
260	75.98	76.22	76.67	0.12	0.15	0.19	0.08	0.13	0.18
270	75.30	76.27	75.67	0.12	0.15	0.19	0.08	0.13	0.18
280	75.57	77.69	75.98	0.12	0.15	0.19	0.07	0.13	0.18
290	76.63	74.97	75.86	0.12	0.15	0.19	0.08	0.13	0.18
300	76.25	74.70	75.30	0.13	0.15	0.20	0.08	0.13	0.18
350	74.26	73.88	74.34	0.13	0.16	0.21	0.08	0.14	0.19
400	72.02	72.74	71.41	0.15	0.17	0.22	0.09	0.14	0.20
450	71.29	70.35	71.21	0.15	0.18	0.22	0.09	0.15	0.21
500	71.47	71.55	72.05	0.15	0.19	0.23	0.09	0.16	0.22

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# BPF-A122+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
115.0	81.84	88.38	94.28
115.2	92.77	99.14	104.47
115.4	101.62	107.49	111.91
115.5	105.28	110.71	114.57
115.8	116.21	119.82	121.6
116.0	122.78	124.62	124.9
116.2	128.08	128.14	126.8
116.4	131.65	130.05	127.52
116.5	133.12	130.55	127.43
116.8	134.25	129.9	125.63
117.0	133.3	128.21	123.73
117.2	131.17	125.86	121.37
117.4	128.37	123.13	118.88
117.5	126.81	121.66	117.58
117.8	121.85	117.40	113.68
118.0	118.60	114.58	111.31
118.2	115.55	112.10	109.08
118.4	112.82	109.73	107.04
118.5	111.53	108.55	106.03
118.7	109.16	106.64	104.32
118.8	107.98	105.48	103.38
119.0	105.97	103.75	101.82
119.2	104.07	102.11	100.42
119.4	102.32	100.48	99.01
119.5	101.51	99.88	98.41
119.7	99.94	98.51	97.28
119.8	99.17	97.82	96.74
120.0	98.01	96.82	95.86
120.2	96.81	95.81	95.14
120.4	95.76	95.06	94.56
120.5	95.28	94.70	94.29
120.7	94.38	94.13	93.92
120.8	94.09	93.85	93.73
121.0	93.79	93.62	93.64
121.2	93.27	93.33	93.43
121.4	93.20	93.30	93.50
121.5	93.11	93.41	93.54
121.7	93.09	93.37	93.63
121.8	93.16	93.44	93.80
122.0	93.33	93.66	93.97
122.2	93.72	93.89	94.30
122.4	93.83	94.21	94.50
122.8	94.48	94.73	94.93
123.0	94.81	95.05	95.27
123.2	95.02	95.34	95.55
123.4	95.20	95.54	95.78
123.5	95.42	95.77	95.98
123.8	95.76	96.19	96.51
124.0	96.23	96.73	97.22
124.2	96.67	97.29	97.99
124.4	97.13	97.97	98.83
124.5	97.45	98.47	99.37
124.8	98.60	99.82	101.02
125.0	99.58	100.89	102.24

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