

# Surface Mount Band Pass Filter

# SXBP-70+

## 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
0.5	107.65	95.47	98.95	0.01	0.01	0.02	0.00	0.01	0.01
10	57.10	56.93	56.97	0.02	0.03	0.03	0.00	0.01	0.00
19	45.35	45.30	45.28	0.03	0.05	0.05	0.00	0.01	0.02
20	44.41	44.38	44.31	0.04	0.05	0.05	0.00	0.01	0.01
30	35.98	35.87	35.79	0.07	0.07	0.08	0.01	0.02	0.03
40	29.20	29.12	29.02	0.12	0.14	0.14	0.04	0.07	0.09
50	30.12	30.23	30.33	0.31	0.33	0.36	0.27	0.33	0.39
51	34.90	35.18	35.37	0.36	0.38	0.41	0.34	0.41	0.48
52	36.20	35.26	34.32	0.42	0.46	0.50	0.44	0.54	0.62
53	25.40	24.89	24.44	0.55	0.58	0.63	0.63	0.74	0.84
54	18.35	18.00	17.72	0.77	0.82	0.90	0.95	1.11	1.24
56	8.31	8.16	8.09	2.24	2.40	2.55	2.98	3.33	3.63
57	4.91	4.87	4.89	4.33	4.55	4.76	5.86	6.42	6.86
58	2.87	2.93	3.01	7.71	7.96	8.17	11.36	12.30	13.00
60	1.52	1.62	1.71	13.32	13.48	13.63	19.78	19.81	20.01
63	1.10	1.18	1.26	15.58	15.85	16.04	15.55	15.56	15.58
64	1.00	1.09	1.17	17.09	17.42	17.62	16.45	16.45	16.43
65	0.93	1.02	1.10	19.05	19.44	19.65	17.77	17.75	17.68
66	0.88	0.97	1.05	21.28	21.72	21.98	19.30	19.22	19.09
67	0.85	0.93	1.02	23.28	23.72	24.05	20.74	20.58	20.40
68	0.83	0.92	0.99	24.31	24.52	24.79	21.77	21.53	21.25
69	0.82	0.91	0.99	24.21	24.10	24.12	22.33	21.95	21.56
70	0.81	0.91	0.99	23.64	23.23	22.97	22.57	22.02	21.47
71	0.82	0.91	1.00	23.12	22.47	21.94	22.71	21.94	21.17
72	0.83	0.92	1.01	22.73	21.89	21.12	22.87	21.84	20.84
73	0.85	0.94	1.04	22.44	21.49	20.53	23.02	21.73	20.50
74	0.87	0.97	1.07	22.17	21.20	20.14	23.07	21.62	20.24
75	0.91	1.01	1.11	21.89	21.03	19.98	23.03	21.54	20.10
76	0.94	1.05	1.16	21.62	21.10	20.15	23.00	21.65	20.21
77	1.00	1.10	1.21	21.50	21.49	20.89	23.37	22.28	20.86
78	1.06	1.17	1.29	21.60	22.39	22.48	24.69	24.04	22.49
79	1.15	1.27	1.38	21.54	23.14	24.78	28.53	29.07	26.35
80	1.28	1.41	1.54	19.92	21.12	22.96	33.34	37.77	29.32
81	1.50	1.67	1.82	16.30	16.47	17.04	22.03	21.35	20.28
82	1.90	2.12	2.31	12.21	11.95	12.04	15.12	14.49	13.96
84	3.78	4.17	4.46	5.78	5.54	5.52	7.05	6.76	6.58
86	7.75	8.28	8.63	2.45	2.39	2.43	3.24	3.20	3.19
89	16.67	17.28	17.59	0.86	0.89	0.94	1.36	1.42	1.49
95	34.19	33.86	33.80	0.35	0.38	0.41	0.64	0.70	0.77
100	27.65	27.73	27.81	0.27	0.29	0.31	0.47	0.53	0.58
120	30.06	30.23	30.34	0.15	0.16	0.17	0.25	0.29	0.33
140	34.42	34.61	34.77	0.13	0.14	0.14	0.18	0.22	0.25
160	38.55	38.73	38.90	0.13	0.14	0.14	0.14	0.18	0.20
180	42.29	42.47	42.64	0.14	0.14	0.14	0.13	0.17	0.20
195	45.05	45.20	45.25	0.13	0.15	0.14	0.11	0.16	0.19
200	45.95	46.08	46.27	0.14	0.15	0.15	0.11	0.16	0.19
300	74.19	73.97	72.89	0.14	0.17	0.17	0.08	0.15	0.18
400	56.15	56.60	56.61	0.18	0.21	0.22	0.09	0.18	0.22
500	53.64	54.13	54.20	0.17	0.21	0.23	0.09	0.19	0.24
1000	59.99	60.52	58.35	0.20	0.28	0.34	0.19	0.37	0.44
1500	46.75	45.23	43.94	0.42	0.58	0.66	0.38	0.64	0.78
2000	26.83	26.18	25.59	1.13	1.42	1.61	0.91	1.29	1.63
2500	14.49	13.94	13.74	3.56	4.53	5.35	3.30	4.10	4.46

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
54.00	15.45	17.15	17.95
55.00	39.41	40.33	40.67
56.00	55.69	56.07	56.05
57.00	66.48	66.20	65.44
58.00	68.02	67.06	65.98
59.00	61.01	59.92	58.88
60.00	51.48	50.55	49.90
61.00	41.98	41.55	41.22
62.00	37.11	36.88	36.70
63.00	33.86	33.68	33.60
63.50	32.84	32.64	32.41
64.00	31.72	31.62	31.48
64.25	31.29	31.17	31.00
64.50	30.91	30.79	30.69
65.00	30.13	30.06	29.84
65.25	29.73	29.67	29.48
65.50	29.40	29.25	29.07
66.00	28.88	28.80	28.64
66.25	28.55	28.50	28.32
66.50	28.30	28.15	28.08
67.00	27.65	27.71	27.48
67.25	27.38	27.41	27.25
67.50	27.14	27.13	27.16
68.00	26.88	26.95	26.94
68.50	26.65	26.52	26.55
69.00	26.21	26.18	26.15
69.50	26.01	25.94	25.92
70.00	25.89	25.85	25.83
70.50	25.68	25.68	25.71
71.00	25.68	25.69	25.64
71.50	25.64	25.55	25.44
72.00	25.62	25.63	25.56
72.50	25.57	25.56	25.53
73.00	25.72	25.82	25.77
73.50	26.00	26.04	26.03
74.00	26.22	26.13	26.16
74.50	26.33	26.32	26.33
75.00	26.57	26.67	26.68
75.50	26.92	27.00	26.95
76.00	27.35	27.41	27.47
76.50	27.84	28.06	27.99
77.00	28.41	28.69	28.66
78.00	29.82	30.10	30.36
79.00	32.01	32.43	32.51
80.00	35.00	35.49	35.76
81.00	38.66	39.26	39.60
82.00	42.91	43.48	43.55
83.00	46.75	46.88	46.62
84.00	48.33	47.68	47.01
85.00	46.18	45.01	43.86
86.00	41.05	39.53	38.41
87.00	34.32	32.89	31.88
88.00	27.62	26.21	25.22
89.00	20.99	19.36	18.48
90.00	13.60	12.02	10.99

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