

Surface Mount Band Pass Filter

SXBP-100+

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	104.64	94.31	104.84	0.01	0.00	0.01	0.01	0.01	0.01
1	105.32	98.03	96.01	0.00	0.00	0.01	0.01	0.00	0.01
10	105.44	104.95	99.77	0.01	0.01	0.01	0.00	0.00	0.00
55	48.68	48.41	48.12	0.07	0.08	0.09	0.05	0.08	0.09
60	40.57	40.25	39.95	0.11	0.13	0.15	0.09	0.13	0.15
66	29.81	29.46	29.13	0.24	0.28	0.32	0.22	0.27	0.31
70	21.64	21.28	20.95	0.48	0.56	0.64	0.44	0.52	0.59
75	10.09	9.83	9.62	1.93	2.25	2.55	1.75	2.02	2.24
78	4.22	4.25	4.28	6.54	7.39	8.19	5.79	6.35	6.77
80	2.37	2.54	2.68	14.11	15.62	17.08	11.60	12.09	12.38
87	1.39	1.56	1.69	16.71	16.87	17.12	19.19	19.98	20.90
95	1.27	1.40	1.52	17.27	18.10	19.02	16.86	17.77	18.71
100	1.22	1.38	1.50	30.84	30.30	30.62	22.25	22.51	22.92
110	1.40	1.57	1.72	28.98	27.77	26.54	30.28	30.63	29.49
117	1.81	2.03	2.22	19.31	20.28	21.49	17.96	18.28	18.43
200	61.84	62.24	62.49	0.22	0.25	0.27	0.19	0.24	0.26
300	80.79	80.80	80.36	0.15	0.19	0.21	0.12	0.18	0.21
400	84.75	84.90	86.91	0.15	0.19	0.22	0.11	0.18	0.21
500	86.62	88.10	85.01	0.16	0.21	0.24	0.11	0.20	0.23
600	85.96	84.80	85.37	0.16	0.22	0.26	0.12	0.22	0.26
700	88.81	86.29	88.62	0.18	0.25	0.29	0.14	0.25	0.30
800	88.41	85.69	84.33	0.19	0.28	0.33	0.15	0.28	0.34
900	82.05	82.72	78.12	0.23	0.32	0.38	0.17	0.30	0.37
1000	72.39	76.19	71.79	0.26	0.35	0.42	0.19	0.33	0.40
1100	73.20	72.87	73.01	0.27	0.38	0.45	0.22	0.37	0.45
1200	74.15	70.38	74.32	0.30	0.41	0.49	0.25	0.41	0.50
1300	70.38	68.32	69.09	0.34	0.46	0.54	0.27	0.45	0.54
1400	67.34	67.13	67.23	0.37	0.50	0.60	0.30	0.49	0.59
1500	63.07	66.65	66.01	0.42	0.56	0.67	0.34	0.53	0.64
1600	59.08	64.24	58.91	0.47	0.63	0.75	0.38	0.58	0.70
1700	62.10	61.92	66.31	0.54	0.71	0.85	0.41	0.63	0.76
1800	56.16	54.54	56.62	0.61	0.80	0.97	0.44	0.68	0.83
1900	56.72	54.41	53.23	0.73	0.94	1.13	0.50	0.76	0.93
2000	52.63	61.08	54.57	0.80	1.05	1.25	0.61	0.87	1.07
2100	53.25	51.48	51.60	1.09	1.38	1.63	0.68	0.99	1.19
2200	49.50	51.23	52.56	1.44	1.75	2.04	0.83	1.16	1.37
2300	53.22	50.28	54.33	1.84	2.18	2.42	1.05	1.39	1.62
2400	62.09	59.87	64.28	2.22	2.47	2.64	1.29	1.60	1.79
2500	42.41	46.04	41.80	2.51	2.61	2.76	1.44	1.75	1.95
2600	38.38	40.15	38.93	2.44	2.62	2.86	1.52	1.83	2.06
2700	38.84	38.43	37.56	2.51	2.75	3.03	1.63	1.99	2.31
2800	43.47	40.39	40.07	2.65	2.98	3.40	1.91	2.38	2.76
2900	37.78	38.15	35.21	3.14	3.65	4.22	2.35	3.02	3.66
3000	35.70	33.21	32.43	3.86	4.70	5.69	3.20	4.41	5.40
3100	28.07	27.02	26.64	5.37	6.62	7.78	5.25	7.09	7.87
3200	23.16	22.82	23.53	7.66	9.58	10.69	8.88	8.79	7.56
3300	20.15	21.59	22.60	11.40	12.37	11.27	7.17	6.16	5.45
3400	19.87	22.03	23.36	12.14	10.26	8.87	4.55	4.66	4.78
3500	20.89	23.83	25.74	8.15	7.35	6.79	3.78	4.43	5.19
3600	22.89	25.13	28.60	6.30	6.38	6.62	4.19	5.16	6.04
3700	25.99	26.91	27.61	6.24	6.73	7.18	5.25	6.54	7.79
3800	25.42	26.28	26.93	6.31	6.88	7.38	7.00	8.28	9.34
3900	24.44	24.59	24.77	6.66	7.04	7.58	8.80	10.07	10.75
4000	22.38	23.42	22.85	6.94	7.59	7.81	11.33	11.91	12.22

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
40	1.18	3.83	1.87
50	3.44	4.10	4.21
60	7.04	7.18	7.40
70	17.28	17.94	18.53
80	50.99	49.84	48.86
87	32.20	31.94	31.72
88	30.91	30.70	30.53
89	29.80	29.64	29.52
90	28.82	28.72	28.64
91	28.01	27.95	27.89
92	27.36	27.32	27.28
93	26.81	26.80	26.77
94	26.37	26.36	26.34
95	26.03	26.02	26.00
96	25.73	25.72	25.69
97	25.49	25.46	25.44
98	25.27	25.25	25.20
99	25.05	25.02	24.98
100	24.86	24.83	24.80
101	24.66	24.64	24.60
102	24.48	24.46	24.44
103	24.33	24.32	24.32
104	24.24	24.25	24.27
105	24.19	24.22	24.25
106	24.20	24.26	24.30
107	24.29	24.35	24.40
108	24.43	24.50	24.57
109	24.61	24.69	24.76
110	24.84	24.92	25.00
111	25.10	25.20	25.28
112	25.40	25.50	25.59
113	25.69	25.83	25.94
114	26.03	26.20	26.33
115	26.45	26.66	26.85
116	26.95	27.23	27.49
117	27.62	27.98	28.29
120	31.25	31.78	32.16
130	23.72	22.67	21.82
140	8.28	8.22	8.17
150	4.93	4.97	4.99
160	3.01	3.06	3.03
170	2.32	2.21	2.11
180	1.77	1.69	1.65
190	1.56	1.49	1.61
200	1.38	1.33	1.35
210	1.18	1.18	1.17
220	1.11	1.21	1.23
230	0.96	0.85	0.94
240	0.92	0.96	0.79
250	0.82	0.60	1.19
260	0.76	0.68	0.58
270	1.40	0.06	0.58
280	0.98	0.85	0.78
290	0.29	0.98	0.62
300	0.49	1.58	0.62

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