

# Surface Mount Band Pass Filter

# SXBP-150+

## 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
10	84.18	83.43	83.48	0.35	0.42	0.52	0.35	0.44	0.52
20	83.30	87.61	80.16	0.34	0.42	0.49	0.36	0.43	0.50
30	80.48	78.08	80.42	0.33	0.39	0.45	0.33	0.40	0.45
40	79.75	79.38	78.55	0.30	0.34	0.39	0.31	0.36	0.39
50	78.07	78.81	78.82	0.27	0.30	0.34	0.27	0.31	0.33
60	79.63	83.54	77.29	0.22	0.26	0.29	0.23	0.27	0.30
70	89.89	87.38	85.23	0.18	0.22	0.26	0.18	0.23	0.26
80	80.32	76.48	80.04	0.16	0.19	0.23	0.15	0.20	0.24
90	66.90	66.87	66.45	0.13	0.17	0.22	0.13	0.18	0.22
100	55.98	55.83	55.66	0.13	0.18	0.21	0.13	0.18	0.21
120	31.53	31.21	30.88	0.27	0.36	0.42	0.26	0.34	0.40
130	13.90	13.47	13.05	1.28	1.59	1.86	1.17	1.48	1.73
135	4.40	4.41	4.38	6.88	8.15	9.35	6.58	7.79	8.94
140	1.86	2.15	2.35	24.98	24.50	24.31	23.69	22.70	22.02
150	1.51	1.79	1.99	23.51	23.96	24.16	21.82	22.73	23.56
160	1.74	2.07	2.33	16.91	16.94	17.16	17.53	17.72	18.06
165	2.31	2.90	3.42	16.13	14.07	12.52	19.43	16.51	14.46
170	6.89	7.93	8.78	3.57	3.42	3.28	3.88	3.74	3.60
175	14.04	14.95	15.69	1.32	1.43	1.48	1.44	1.55	1.60
184	24.44	25.06	25.60	0.60	0.69	0.76	0.63	0.75	0.81
190	29.70	30.23	30.66	0.44	0.52	0.59	0.46	0.57	0.62
250	56.46	56.83	57.35	0.13	0.18	0.23	0.12	0.20	0.23
300	67.73	67.48	68.13	0.06	0.13	0.17	0.06	0.13	0.17
400	79.14	87.21	84.70	0.02	0.08	0.12	0.02	0.09	0.13
500	87.49	86.08	97.36	0.01	0.07	0.12	0.00	0.08	0.13
600	89.91	90.03	97.76	0.00	0.09	0.14	0.01	0.08	0.14
700	85.89	93.28	89.56	0.01	0.09	0.16	0.00	0.10	0.17
800	86.21	97.45	96.86	0.01	0.10	0.17	0.02	0.13	0.20
900	96.07	91.22	88.25	0.01	0.13	0.20	0.02	0.14	0.20
1000	87.75	94.95	84.53	0.00	0.13	0.21	0.01	0.14	0.21
1200	87.93	86.14	94.72	0.01	0.17	0.24	0.03	0.19	0.26
1300	85.08	90.84	83.18	0.03	0.19	0.27	0.05	0.22	0.31
1400	76.59	75.32	78.31	0.03	0.20	0.29	0.05	0.22	0.32
1500	70.41	71.02	69.89	0.03	0.20	0.31	0.05	0.22	0.32
1600	65.48	68.34	69.32	0.04	0.22	0.32	0.07	0.26	0.35
1700	65.33	64.44	74.31	0.05	0.25	0.36	0.09	0.27	0.38
1800	71.27	82.74	62.99	0.05	0.26	0.39	0.09	0.26	0.38
2000	73.25	61.52	65.50	0.08	0.28	0.40	0.08	0.31	0.43
2200	59.89	55.42	59.16	0.09	0.30	0.45	0.09	0.33	0.45
2300	56.97	61.78	58.36	0.09	0.32	0.45	0.11	0.34	0.48
2400	50.91	53.73	50.10	0.10	0.31	0.48	0.13	0.33	0.50
2500	50.71	51.53	49.97	0.13	0.34	0.51	0.10	0.37	0.51
2600	50.52	50.70	49.23	0.14	0.36	0.54	0.13	0.37	0.53
2700	50.06	50.40	52.80	0.09	0.35	0.51	0.13	0.37	0.55
2800	47.88	48.19	48.33	0.15	0.40	0.57	0.13	0.39	0.57
3000	42.07	47.58	43.81	0.11	0.40	0.59	0.15	0.45	0.64
3200	38.78	40.15	40.32	0.18	0.47	0.64	0.16	0.44	0.68
3300	37.42	39.21	38.11	0.15	0.46	0.65	0.20	0.56	0.75
3400	38.42	38.43	38.33	0.17	0.52	0.75	0.37	0.71	1.07
3500	35.19	36.58	36.62	0.21	0.62	0.88	0.73	1.49	1.95
3600	35.48	38.56	35.18	0.39	0.91	1.37	1.45	1.23	1.20
3700	38.48	37.11	35.81	1.29	1.41	1.29	0.40	0.75	1.04
3800	38.02	33.00	35.78	0.39	0.75	0.94	0.45	0.67	1.15
4000	30.42	27.95	30.00	0.28	0.70	0.95	0.35	0.89	1.09

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# Surface Mount Band Pass Filter

# SXBP-150+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
80	15.92	2.43	28.52
85	1.08	2.02	9.30
90	3.96	2.79	1.63
95	1.45	5.61	2.04
100	3.12	2.81	4.79
105	4.27	4.93	4.69
108	4.95	4.37	4.26
110	5.30	4.65	4.80
115	5.71	6.30	6.31
118	7.07	7.56	7.66
120	8.23	8.51	8.72
125	12.48	13.06	13.67
128	17.78	18.80	19.75
130	23.75	25.14	26.41
135	45.61	45.75	45.87
138	45.68	44.43	43.38
140	40.13	39.06	38.25
141	37.47	36.65	36.04
142	35.30	34.71	34.23
143	33.63	33.20	32.85
144	32.34	32.04	31.77
145	31.26	31.03	30.81
146	30.44	30.22	30.07
147	29.73	29.59	29.45
148	29.14	29.05	28.99
149	28.66	28.60	28.57
150	28.32	28.30	28.26
151	28.06	28.05	28.09
152	27.86	27.90	27.97
153	27.79	27.82	27.85
154	27.72	27.77	27.83
155	27.69	27.75	27.86
156	27.75	27.86	27.94
157	27.86	27.99	28.14
158	28.03	28.23	28.47
159	28.41	28.71	29.09
160	29.02	29.48	29.96
165	36.30	36.58	36.66
168	36.72	35.31	33.96
170	31.87	29.87	28.23
175	16.95	16.04	15.17
178	11.97	11.51	11.06
180	9.82	9.42	9.11
185	6.48	6.28	6.30
188	5.30	5.18	5.11
190	4.64	4.69	4.61
195	3.51	3.52	3.54
198	3.03	3.06	3.11
200	2.88	2.86	2.78
205	2.39	2.44	2.45
300	1.32	1.07	1.47
305	0.57	0.97	0.43
400	3.16	1.18	9.44

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