

# Surface Mount Band Pass Filter

# SXBP-162+

## 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	102.91	93.45	101.80	0.00	0.00	0.00	0.00	0.00	0.00
10	100.31	95.88	99.92	0.00	0.00	0.00	0.00	0.00	0.00
20	100.67	88.79	93.30	0.00	0.00	0.00	0.00	0.00	0.01
30	94.75	99.08	89.78	0.00	0.00	0.01	0.00	0.00	0.01
40	95.06	96.02	93.81	0.00	0.01	0.01	0.00	0.00	0.02
50	95.46	97.11	102.14	0.00	0.01	0.01	0.01	0.01	0.02
60	87.74	102.60	91.71	0.01	0.01	0.01	0.01	0.01	0.03
70	92.47	93.23	96.10	0.01	0.01	0.02	0.01	0.01	0.04
80	88.19	86.47	95.45	0.01	0.02	0.03	0.01	0.02	0.05
90	87.10	90.70	88.42	0.02	0.03	0.03	0.00	0.03	0.06
100	88.90	91.85	89.43	0.03	0.04	0.05	0.01	0.04	0.07
110	85.93	83.90	87.02	0.05	0.07	0.08	0.03	0.06	0.10
120	66.34	65.94	65.29	0.08	0.11	0.13	0.07	0.11	0.14
127	54.64	54.32	53.95	0.13	0.17	0.19	0.11	0.16	0.20
138	35.51	35.05	34.51	0.34	0.41	0.48	0.31	0.41	0.49
144	22.56	21.99	21.34	0.76	0.93	1.09	0.73	0.93	1.11
147	14.89	14.33	13.68	1.49	1.85	2.20	1.47	1.86	2.24
149	9.55	9.14	8.66	2.90	3.60	4.33	2.92	3.67	4.45
155	2.23	2.55	2.76	24.02	23.55	23.44	26.04	24.56	23.55
162	1.67	1.96	2.16	27.88	27.57	27.07	26.16	26.49	26.86
169	1.65	1.96	2.20	24.47	24.60	24.89	25.85	25.58	25.38
174	2.18	2.67	3.09	16.35	14.82	13.37	15.61	14.24	12.90
178	5.01	5.79	6.49	4.82	4.59	4.30	4.76	4.56	4.28
180	7.53	8.33	9.06	2.73	2.71	2.61	2.71	2.70	2.63
185	14.23	14.89	15.51	0.95	1.03	1.07	0.94	1.04	1.10
190	19.84	20.37	20.86	0.50	0.57	0.61	0.49	0.58	0.65
200	27.97	28.35	28.69	0.24	0.29	0.32	0.22	0.30	0.35
210	33.56	33.85	34.14	0.15	0.20	0.22	0.13	0.20	0.25
220	37.65	37.89	38.14	0.11	0.15	0.17	0.09	0.15	0.20
230	40.76	40.97	41.19	0.09	0.12	0.15	0.06	0.12	0.17
240	43.19	43.42	43.61	0.07	0.11	0.13	0.05	0.11	0.16
250	45.18	45.38	45.57	0.07	0.10	0.12	0.04	0.10	0.15
260	46.82	47.02	47.16	0.06	0.10	0.12	0.04	0.10	0.14
270	48.15	48.34	48.53	0.06	0.09	0.11	0.03	0.10	0.14
280	49.34	49.49	49.65	0.06	0.09	0.11	0.03	0.09	0.14
290	50.31	50.49	50.64	0.06	0.09	0.11	0.02	0.09	0.14
300	51.10	51.31	51.44	0.06	0.09	0.11	0.03	0.09	0.14
400	55.97	56.21	56.30	0.08	0.11	0.13	0.04	0.12	0.17
500	58.93	59.17	59.41	0.10	0.14	0.16	0.06	0.15	0.21
600	61.17	61.30	61.74	0.13	0.16	0.19	0.08	0.18	0.24
705	65.36	65.81	66.23	0.15	0.18	0.21	0.10	0.20	0.28
805	69.28	65.77	69.76	0.16	0.20	0.22	0.11	0.22	0.31
905	69.79	67.74	69.03	0.16	0.20	0.23	0.11	0.23	0.32
1005	70.02	65.60	70.25	0.17	0.21	0.24	0.12	0.24	0.34
1105	55.82	61.16	55.60	0.17	0.21	0.25	0.11	0.24	0.37
1205	66.11	63.32	66.12	0.16	0.21	0.24	0.09	0.23	0.36
1305	84.59	66.47	76.48	0.15	0.21	0.24	0.09	0.23	0.38
1405	52.76	65.18	56.13	0.17	0.21	0.26	0.09	0.24	0.40
1505	67.64	56.36	66.89	0.16	0.23	0.27	0.07	0.26	0.41
1600	46.82	47.31	44.66	0.19	0.25	0.32	0.12	0.28	0.47
1700	23.83	22.79	21.54	0.53	0.71	0.91	0.42	0.71	1.01
1800	12.93	12.87	12.46	0.86	1.05	1.27	0.82	1.13	1.46
1900	15.95	16.50	17.10	0.52	0.56	0.61	0.42	0.60	0.77
2000	21.40	21.67	21.88	0.23	0.33	0.39	0.12	0.35	0.51

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
120.0	2.41	1.56	1.03
130.0	5.54	5.81	5.83
140.0	12.11	12.77	13.36
141.0	13.65	14.37	15.08
142.0	15.44	16.32	17.21
143.0	17.72	18.76	19.84
144.0	20.58	21.87	23.17
145.0	24.26	25.74	27.25
146.0	28.79	30.40	32.03
147.0	34.03	35.59	37.13
148.0	39.42	40.69	41.95
149.0	44.26	45.12	46.01
150.0	48.15	48.57	49.06
151.0	50.91	50.93	51.04
152.0	52.56	52.20	51.93
153.0	53.03	52.29	51.65
154.0	52.24	51.18	50.23
155.0	50.25	48.99	47.89
155.5	48.89	47.62	46.51
156.0	47.41	46.18	45.12
156.5	45.87	44.74	43.75
157.0	44.39	43.37	42.49
157.5	42.97	42.08	41.31
158.0	41.69	40.93	40.26
158.5	40.55	39.90	39.33
159.0	39.57	39.01	38.51
159.5	38.69	38.21	37.79
160.0	37.92	37.52	37.15
160.5	37.26	36.90	36.58
161.0	36.66	36.35	36.07
161.5	36.13	35.86	35.62
162.0	35.66	35.43	35.23
162.5	35.24	35.05	34.88
163.0	34.88	34.71	34.57
163.5	34.56	34.42	34.31
164.0	34.29	34.18	34.09
164.5	34.05	33.96	33.91
165.0	33.86	33.81	33.78
165.5	33.71	33.68	33.69
166.0	33.60	33.61	33.65
166.5	33.54	33.58	33.66
167.0	33.54	33.62	33.72
167.5	33.58	33.68	33.82
168.0	33.67	33.81	33.97
168.5	33.82	33.99	34.19
169.0	34.03	34.23	34.46
170.0	34.62	34.85	35.11
180.0	29.67	28.46	27.31
190.0	9.79	9.59	9.36
200.0	4.90	4.88	4.82
300.0	0.97	0.95	0.93
400.0	0.79	0.76	0.79
500.0	0.40	0.79	0.68
600.0	1.10	1.42	1.44

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