

# Surface Mount Band Pass Filter

# SXBP-169+

## 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
1	95.93	94.03	103.06	0.30	0.38	0.47	0.28	0.39	0.47
10	84.42	87.68	89.83	0.35	0.44	0.53	0.33	0.44	0.52
50	78.59	89.18	84.19	0.27	0.31	0.33	0.26	0.31	0.34
100	71.87	71.80	71.29	0.10	0.15	0.18	0.10	0.15	0.19
110	62.15	61.54	61.61	0.10	0.15	0.18	0.09	0.14	0.18
122	50.03	49.56	49.39	0.12	0.18	0.21	0.11	0.17	0.20
126	45.26	45.00	44.75	0.14	0.21	0.25	0.13	0.19	0.23
137	30.45	30.09	29.69	0.33	0.44	0.51	0.27	0.37	0.42
140	25.48	25.08	24.63	0.48	0.63	0.74	0.38	0.51	0.60
150	5.42	5.44	5.32	6.45	7.83	9.18	5.28	6.31	7.30
152	3.16	3.44	3.57	14.72	17.27	20.04	11.53	12.93	14.32
164	1.80	2.13	2.33	15.75	15.99	16.20	14.83	15.23	15.67
169	1.74	2.09	2.34	19.37	19.31	19.02	26.07	31.11	35.30
174	1.99	2.39	2.66	15.13	14.75	14.54	16.44	16.11	16.03
185	9.04	10.15	11.11	2.52	2.52	2.44	3.17	3.19	3.11
190	16.92	17.79	18.58	1.01	1.13	1.19	1.26	1.40	1.46
205	32.98	33.48	33.91	0.36	0.46	0.50	0.43	0.53	0.59
220	42.83	43.18	43.46	0.22	0.30	0.35	0.26	0.34	0.39
230	47.88	48.09	48.38	0.18	0.25	0.29	0.19	0.27	0.32
240	51.98	52.36	52.67	0.14	0.21	0.25	0.16	0.23	0.28
300	68.73	69.59	69.29	0.05	0.13	0.16	0.06	0.13	0.17
400	89.03	83.54	86.29	0.01	0.08	0.13	0.01	0.08	0.13
500	92.95	99.73	108.34	0.02	0.07	0.12	0.00	0.08	0.13
600	99.20	92.64	84.54	0.01	0.08	0.14	0.02	0.09	0.15
700	86.40	90.55	92.70	0.01	0.10	0.16	0.02	0.09	0.16
800	87.72	98.28	90.97	0.01	0.11	0.17	0.02	0.11	0.18
900	83.31	95.42	83.15	0.00	0.12	0.19	0.01	0.14	0.20
1000	78.07	90.30	80.33	0.00	0.14	0.21	0.01	0.14	0.21
1200	75.00	89.33	74.88	0.01	0.17	0.25	0.02	0.19	0.28
1300	77.41	80.23	78.32	0.02	0.19	0.27	0.04	0.21	0.29
1400	69.00	79.61	69.81	0.02	0.20	0.31	0.02	0.20	0.31
1500	73.93	81.42	75.06	0.03	0.22	0.31	0.04	0.23	0.33
1600	80.64	72.69	86.53	0.03	0.23	0.33	0.05	0.24	0.36
1700	66.57	70.81	68.55	0.06	0.24	0.36	0.06	0.26	0.38
1800	66.45	76.49	75.28	0.07	0.27	0.37	0.05	0.28	0.39
1900	59.17	63.40	61.05	0.07	0.27	0.39	0.06	0.28	0.41
2000	66.70	65.29	65.07	0.06	0.29	0.40	0.04	0.29	0.39
2200	63.07	59.70	62.04	0.08	0.31	0.44	0.06	0.31	0.43
2300	56.58	51.76	53.87	0.09	0.34	0.47	0.07	0.33	0.46
2400	56.13	60.33	56.14	0.10	0.33	0.49	0.08	0.33	0.48
2500	52.45	56.36	52.39	0.09	0.35	0.51	0.08	0.33	0.50
2600	45.41	45.72	43.59	0.11	0.37	0.52	0.11	0.37	0.53
2700	48.32	49.59	46.66	0.12	0.36	0.53	0.12	0.37	0.58
2800	40.19	43.88	39.91	0.15	0.41	0.59	0.07	0.35	0.53
2900	43.61	45.20	47.93	0.12	0.40	0.58	0.11	0.38	0.58
3000	41.32	41.79	40.69	0.08	0.41	0.55	0.13	0.40	0.62
3200	39.89	37.57	37.83	0.13	0.53	0.66	0.13	0.47	0.68
3300	38.93	39.66	40.15	0.23	0.56	0.86	0.11	0.49	0.70
3400	41.15	36.88	38.60	0.36	0.95	1.28	0.17	0.64	0.80
3500	35.87	36.46	36.93	1.68	1.38	1.50	0.43	1.03	1.27
3600	34.59	34.56	35.25	0.47	0.71	0.97	0.64	0.82	0.97
3700	34.73	31.70	32.76	0.25	0.69	0.94	0.30	0.71	1.01
3800	32.87	32.17	30.87	0.31	0.67	1.03	0.35	0.70	1.10
4000	30.62	28.65	30.68	0.43	0.82	1.18	0.31	0.75	1.05

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# SXBP-169+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
60	4.42	2.97	6.78
70	21.82	7.65	24.77
80	18.15	25.64	27.14
90	6.11	17.63	15.63
100	7.48	4.76	9.74
110	2.37	2.97	3.28
120	2.74	3.68	2.92
130	5.17	5.45	5.70
140	11.37	11.98	12.62
150	45.89	46.16	46.54
160	33.20	32.83	32.56
161	32.19	31.93	31.68
162	31.32	31.10	30.95
163	30.58	30.45	30.39
164	30.06	30.02	30.00
165	29.67	29.73	29.75
166	29.50	29.55	29.65
167	29.47	29.55	29.67
168	29.52	29.63	29.72
169	29.68	29.77	29.84
170	29.81	29.87	29.96
171	29.97	30.04	30.14
172	30.08	30.24	30.38
173	30.44	30.66	30.90
174	30.88	31.19	31.61
175	31.65	32.13	32.72
176	32.84	33.53	34.23
177	34.58	35.28	36.08
178	36.57	37.17	37.81
179	38.61	38.91	39.16
180	40.25	40.03	39.72
190	14.68	14.01	13.34
192	11.35	10.91	10.64
193	10.22	9.82	9.61
194	9.18	8.89	8.69
195	8.31	8.07	7.87
196	7.50	7.40	7.26
197	6.94	6.81	6.63
198	6.27	6.27	6.13
199	5.93	5.83	5.72
200	5.50	5.44	5.39
202	4.81	4.73	4.62
203	4.49	4.53	4.47
204	4.18	4.17	4.21
206	3.76	3.80	3.64
207	3.60	3.53	3.70
208	3.35	3.32	3.36
209	3.20	3.23	3.22
210	3.10	3.03	3.09
220	2.19	2.41	2.17
230	1.66	1.67	1.90
240	1.82	1.06	1.50
250	0.92	1.81	0.94
300	0.90	0.07	1.04

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