

Surface Mount Band Pass Filter

SXBP-140+

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	80.82	81.80	80.81	0.38	0.49	0.59	0.37	0.48	0.56
20	76.24	77.18	82.28	0.38	0.45	0.52	0.37	0.46	0.52
30	76.04	74.98	74.54	0.35	0.41	0.45	0.34	0.41	0.45
40	76.23	73.88	78.42	0.30	0.35	0.37	0.30	0.36	0.39
50	76.60	76.73	78.13	0.24	0.29	0.31	0.25	0.30	0.33
60	74.48	77.00	79.21	0.20	0.24	0.27	0.21	0.26	0.29
70	79.66	84.84	81.20	0.16	0.20	0.22	0.16	0.21	0.23
80	89.03	80.08	78.60	0.13	0.18	0.20	0.14	0.19	0.21
90	63.66	63.01	62.93	0.12	0.17	0.20	0.12	0.17	0.20
100	50.00	49.72	49.63	0.15	0.20	0.23	0.12	0.19	0.22
120	17.67	17.32	17.00	1.00	1.25	1.44	0.82	1.02	1.16
125	6.73	6.66	6.52	4.49	5.41	6.15	3.74	4.47	5.04
130	2.09	2.42	2.61	30.89	31.63	30.15	21.56	22.25	22.49
140	1.62	1.93	2.12	22.13	22.04	21.94	21.70	22.41	23.11
150	2.07	2.55	2.89	24.64	22.52	20.43	20.73	19.23	18.00
155	5.72	6.65	7.33	4.84	4.72	4.54	4.86	4.77	4.62
158	10.18	11.10	11.81	2.30	2.40	2.41	2.38	2.50	2.53
165	20.03	20.74	21.28	0.90	1.03	1.09	0.96	1.11	1.17
170	25.62	26.19	26.64	0.63	0.74	0.80	0.68	0.80	0.87
185	37.74	38.13	38.40	0.33	0.41	0.47	0.37	0.45	0.50
210	50.38	50.58	50.75	0.18	0.24	0.29	0.21	0.27	0.31
300	73.88	72.89	73.81	0.05	0.12	0.15	0.05	0.12	0.15
400	85.76	89.96	87.34	0.02	0.08	0.13	0.01	0.09	0.13
500	86.54	87.83	92.56	0.01	0.07	0.12	0.01	0.08	0.12
600	82.45	86.50	87.54	0.01	0.08	0.13	0.01	0.09	0.13
700	83.72	94.01	95.89	0.01	0.08	0.14	0.01	0.09	0.15
800	86.58	82.77	95.72	0.02	0.10	0.16	0.00	0.11	0.17
900	86.92	93.28	80.21	0.01	0.13	0.20	0.01	0.12	0.19
1000	83.46	82.70	89.02	0.00	0.13	0.21	0.03	0.11	0.18
1200	84.25	85.67	88.71	0.00	0.16	0.24	0.01	0.16	0.24
1300	84.72	84.18	84.38	0.01	0.18	0.26	0.01	0.16	0.26
1400	76.77	75.57	78.45	0.01	0.19	0.29	0.01	0.18	0.28
1500	65.09	64.93	65.02	0.03	0.21	0.31	0.01	0.19	0.29
1600	75.55	81.32	76.02	0.03	0.22	0.32	0.02	0.22	0.33
1700	72.19	74.34	73.01	0.05	0.24	0.35	0.05	0.24	0.34
1800	60.40	66.63	60.43	0.03	0.23	0.36	0.05	0.21	0.34
1900	60.63	67.05	62.33	0.06	0.27	0.36	0.04	0.25	0.35
2000	62.25	62.21	60.91	0.03	0.25	0.38	0.05	0.26	0.39
2200	60.08	61.15	58.19	0.06	0.29	0.42	0.08	0.31	0.45
2300	53.77	56.48	54.61	0.06	0.28	0.44	0.09	0.31	0.46
2400	49.51	53.72	48.90	0.09	0.31	0.47	0.11	0.33	0.49
2500	51.69	51.53	50.45	0.10	0.32	0.49	0.07	0.33	0.48
2600	49.50	50.38	48.83	0.11	0.34	0.53	0.10	0.35	0.50
2700	52.70	53.15	52.18	0.10	0.35	0.50	0.08	0.37	0.51
2800	52.71	46.03	47.43	0.10	0.37	0.54	0.09	0.39	0.55
3000	42.33	43.56	44.01	0.08	0.41	0.55	0.10	0.41	0.59
3200	39.32	41.25	41.27	0.19	0.49	0.68	0.14	0.41	0.62
3300	39.48	40.29	40.15	0.18	0.62	0.82	0.09	0.47	0.63
3400	36.97	37.72	38.91	0.55	0.87	1.07	0.25	0.54	0.79
3500	35.74	36.86	35.59	0.42	0.70	0.87	0.33	0.65	0.82
3600	33.87	34.80	33.31	0.29	0.66	0.93	0.13	0.54	0.74
3700	35.27	35.06	33.57	0.25	0.66	0.89	0.24	0.59	0.89
3800	36.76	32.14	34.11	0.18	0.68	0.86	0.39	0.70	1.13
4000	29.91	28.55	31.45	0.35	0.77	0.99	0.27	0.79	1.02

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
90	2.54	7.62	2.07
95	4.51	3.31	4.41
100	4.63	4.73	5.07
110	7.82	7.97	8.23
120	20.91	21.89	22.76
125	44.00	44.74	45.37
126	48.30	48.46	48.61
127	50.79	50.36	50.02
128	51.24	50.28	49.60
129	49.74	48.57	47.70
130	47.03	45.85	45.02
131	43.91	42.92	42.23
132	41.03	40.31	39.74
133	38.68	38.14	37.73
134	36.85	36.50	36.17
135	35.46	35.16	34.94
136	34.39	34.18	33.96
137	33.50	33.36	33.24
138	32.82	32.70	32.63
139	32.29	32.21	32.21
140	31.92	31.90	31.91
141	31.64	31.68	31.74
142	31.55	31.58	31.67
143	31.55	31.66	31.78
144	31.71	31.87	32.01
145	32.02	32.23	32.45
146	32.58	32.87	33.21
147	33.43	33.80	34.23
148	34.58	35.06	35.54
149	36.07	36.60	37.07
150	37.76	38.22	38.59
151	39.36	39.55	39.65
152	40.43	40.23	39.98
153	40.64	39.93	39.28
154	39.66	38.43	37.46
155	37.47	35.93	34.68
156	34.42	32.68	31.35
157	30.88	29.14	27.86
158	27.22	25.67	24.50
159	23.73	22.53	21.40
160	20.79	19.68	18.87
170	7.51	7.35	7.23
180	3.91	4.11	3.95
190	2.84	2.60	2.54
200	1.61	1.79	1.69
210	1.70	0.88	1.63
220	0.73	0.50	1.56
230	0.99	1.32	1.15
240	0.82	0.70	1.32
250	0.50	0.53	0.74
260	0.83	0.25	1.29
270	1.60	0.23	0.83
280	1.47	0.90	0.67
290	0.81	0.39	0.75

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