

Surface Mount Band Pass Filter

SXBP-35W+

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	76.38	77.73	87.25	0.008	0.008	0.043	0.004	0.007	0.001
1.0	69.87	70.27	71.64	0.002	0.007	0.012	0.004	0.010	0.005
1.5	65.45	64.82	64.80	0.006	0.029	0.032	0.006	0.000	0.003
2.0	60.36	60.89	60.75	0.014	0.031	0.046	0.008	0.005	0.010
2.5	56.74	55.70	56.36	0.035	0.050	0.055	0.015	0.017	0.013
3.0	53.44	53.50	53.81	0.032	0.029	0.063	0.006	0.004	0.002
3.5	50.65	50.95	50.77	0.031	0.045	0.044	0.006	0.002	0.001
4.0	48.78	48.56	48.57	0.031	0.041	0.054	0.004	0.001	0.007
4.5	46.53	46.48	46.56	0.046	0.055	0.040	0.007	0.001	0.006
5.0	44.75	44.76	44.98	0.040	0.047	0.060	0.006	0.004	0.006
6.0	41.83	41.73	41.78	0.063	0.081	0.072	0.001	0.004	0.019
7.0	39.33	39.23	39.13	0.058	0.070	0.070	0.006	0.005	0.003
8.0	37.18	37.23	37.19	0.086	0.072	0.094	0.036	0.019	0.021
9.0	35.59	35.46	35.48	0.081	0.088	0.089	0.001	0.006	0.017
10.0	34.27	34.25	34.16	0.08	0.09	0.10	0.01	0.02	0.04
20.0	4.39	4.30	4.28	2.78	2.87	2.95	2.92	3.08	3.20
30.0	0.28	0.29	0.31	22.13	21.89	21.78	22.70	22.46	22.33
40.0	0.30	0.31	0.34	21.50	21.93	22.28	21.52	21.87	22.14
50.0	0.93	1.03	1.11	10.87	10.53	10.23	10.81	10.45	10.17
60.0	10.24	10.46	10.65	0.86	0.86	0.88	0.87	0.88	0.90
70.0	23.32	23.52	23.70	0.23	0.24	0.27	0.25	0.27	0.30
80.0	37.89	38.06	38.36	0.16	0.16	0.19	0.17	0.19	0.22
90.0	51.44	51.13	50.55	0.15	0.15	0.17	0.15	0.19	0.21
100.0	43.11	42.95	42.93	0.12	0.14	0.14	0.12	0.14	0.18
200.0	54.10	54.45	54.59	0.14	0.16	0.18	0.06	0.11	0.15
300.0	66.34	65.89	66.12	0.15	0.16	0.19	0.08	0.13	0.18
400.0	59.55	59.93	59.26	0.17	0.18	0.22	0.05	0.14	0.19
500.0	68.71	67.71	69.56	0.18	0.22	0.24	0.07	0.16	0.23
600.0	40.37	41.97	43.08	0.68	0.60	0.58	0.11	0.22	0.28
700.0	44.53	43.91	43.91	0.65	0.71	0.71	0.10	0.21	0.31
800.0	47.78	47.86	49.00	0.17	0.22	0.26	0.13	0.27	0.35
900.0	50.53	51.56	51.22	0.18	0.22	0.26	0.16	0.30	0.41
1000.0	52.85	53.03	53.55	0.21	0.26	0.30	0.20	0.36	0.45
1100.0	55.28	54.96	54.56	0.22	0.27	0.33	0.21	0.38	0.49
1200.0	56.19	55.22	53.99	0.29	0.38	0.49	0.21	0.39	0.54
1300.0	59.41	57.43	54.69	0.45	0.58	0.72	0.24	0.44	0.61
1400.0	64.30	56.21	52.66	0.82	0.92	1.00	0.30	0.52	0.69
1500.0	57.88	52.76	49.87	0.95	0.97	1.04	0.38	0.63	0.82
1600.0	53.45	49.19	44.67	0.83	0.95	1.14	0.50	0.78	1.01
1700.0	42.74	40.04	37.78	0.93	1.16	1.44	0.71	1.00	1.21
1800.0	34.73	33.57	32.42	1.28	1.63	2.02	0.92	1.13	1.28
1900.0	30.41	29.89	29.32	1.96	2.46	3.01	0.91	1.11	1.31
2000.0	28.60	28.22	27.92	3.00	3.62	4.22	0.84	1.09	1.35
2100.0	27.64	27.35	26.86	4.01	4.51	4.95	0.79	1.10	1.40
2200.0	26.48	25.89	25.23	4.78	5.08	5.36	0.80	1.19	1.58
2300.0	24.67	23.85	22.92	5.20	5.41	5.62	0.91	1.37	1.79
2400.0	22.67	21.31	20.38	5.40	5.64	5.91	1.12	1.64	2.16
2500.0	19.60	18.40	17.42	5.69	6.11	6.61	1.39	2.06	2.72
2600.0	16.30	15.33	14.74	6.42	7.40	8.30	1.93	2.75	3.36
2700.0	13.21	12.84	12.81	8.74	10.38	11.21	2.71	3.35	3.61
2800.0	11.14	11.63	12.13	13.18	13.15	12.36	3.20	3.28	3.37
2900.0	10.91	11.80	12.54	12.19	11.45	11.16	2.78	2.94	3.07
3000.0	11.76	12.73	13.47	9.82	10.27	10.65	2.47	2.87	3.31

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
19	59.32	59.34	59.37
20	65.68	65.83	65.82
21	67.76	67.85	67.73
22	66.64	66.50	66.33
23	61.73	61.50	61.32
24	53.67	53.41	53.22
25	45.22	44.98	44.88
26	38.72	38.56	38.47
27	34.38	34.28	34.21
28	31.28	31.22	31.19
29	28.98	28.97	28.96
30	27.24	27.22	27.18
31	25.74	25.73	25.69
32	24.54	24.55	24.52
33	23.61	23.64	23.66
34	22.82	22.86	22.89
35	22.34	22.30	22.34
36	21.81	21.83	21.87
37	21.55	21.53	21.65
38	21.32	21.41	21.48
39	21.25	21.34	21.39
40	21.24	21.30	21.42
41	21.29	21.42	21.50
42	21.66	21.73	21.83
43	21.98	22.12	22.17
44	22.48	22.59	22.71
45	23.16	23.28	23.42
46	24.04	24.16	24.27
47	25.03	25.15	25.31
48	26.07	26.18	26.31
50	28.07	28.14	28.16
52	29.13	29.07	28.98
53	29.07	28.91	28.73
54	28.42	28.19	27.95
55	27.25	26.96	26.72
56	25.73	25.40	25.08
57	23.93	23.64	23.32
58	21.91	21.62	21.36
60	18.09	17.85	17.67
62	14.73	14.59	14.40
63	13.22	13.14	13.01
64	12.06	11.97	11.82
65	10.99	10.87	10.81
66	10.07	9.93	9.85
67	9.22	9.16	9.09
68	8.51	8.42	8.32
70	7.24	7.16	7.11
72	6.24	6.10	6.10
73	5.87	5.68	5.74
74	5.17	5.31	5.16
75	5.03	4.79	4.86
76	4.41	4.53	4.17
77	4.00	4.16	3.76
78	3.50	3.34	3.30
80	2.44	2.27	1.64

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