

Surface Mount Band Pass Filter

SXBP-35N+

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	86.35	80.04	79.87	0.01	0.02	0.03	0.01	0.01	0.01
2	73.76	76.77	76.36	0.02	0.03	0.03	0.00	0.00	0.00
3	67.50	68.59	67.40	0.03	0.03	0.03	0.00	0.01	0.01
4	62.87	63.79	63.50	0.03	0.04	0.04	0.00	0.01	0.00
5	59.97	58.83	59.26	0.03	0.03	0.04	0.00	0.01	0.01
6	56.22	56.65	56.55	0.04	0.04	0.05	0.01	0.01	0.01
7	53.80	53.63	53.75	0.05	0.06	0.06	0.02	0.01	0.00
8	51.33	51.23	51.66	0.04	0.06	0.06	0.02	0.02	0.02
9	49.47	49.40	49.63	0.05	0.06	0.06	0.00	0.00	0.01
10	47.87	47.81	47.81	0.06	0.07	0.06	0.01	0.01	0.00
11	46.36	46.25	46.34	0.06	0.06	0.07	0.00	0.02	0.01
12	44.94	44.95	44.95	0.07	0.08	0.08	0.02	0.03	0.03
13	43.93	44.01	44.03	0.07	0.08	0.09	0.03	0.03	0.03
14	43.28	43.38	43.30	0.08	0.09	0.10	0.02	0.02	0.03
15	43.09	43.14	43.16	0.09	0.10	0.11	0.03	0.02	0.03
16	43.58	43.75	43.86	0.09	0.09	0.11	0.02	0.03	0.04
17	45.84	46.02	46.02	0.10	0.11	0.12	0.04	0.04	0.06
18	53.58	55.41	55.62	0.12	0.13	0.15	0.07	0.09	0.10
19	47.95	46.87	46.36	0.13	0.14	0.16	0.07	0.09	0.11
20	36.63	36.11	35.84	0.15	0.16	0.18	0.10	0.12	0.15
30	0.53	0.57	0.61	31.82	29.15	28.16	29.20	27.33	26.54
40	0.54	0.61	0.65	21.85	21.57	21.25	21.47	21.04	20.66
50	10.58	10.81	11.00	1.09	1.10	1.13	0.91	0.92	0.94
60	30.82	30.94	31.08	0.22	0.24	0.26	0.17	0.22	0.23
70	55.24	55.37	55.18	0.14	0.17	0.17	0.09	0.13	0.15
80	51.51	51.71	51.66	0.11	0.12	0.15	0.08	0.14	0.15
90	50.33	50.31	50.37	0.10	0.12	0.12	0.08	0.12	0.15
100	51.01	51.29	51.48	0.10	0.11	0.13	0.08	0.11	0.14
200	71.69	75.38	72.60	0.13	0.15	0.17	0.06	0.11	0.15
300	64.73	66.38	65.64	0.15	0.17	0.18	0.06	0.13	0.17
400	74.60	76.44	75.93	0.16	0.18	0.21	0.07	0.15	0.21
500	51.93	52.34	52.23	0.32	0.36	0.39	0.05	0.15	0.24
600	47.29	48.50	49.28	0.37	0.41	0.45	0.08	0.20	0.28
700	51.75	51.90	52.60	0.45	0.44	0.44	0.11	0.24	0.34
800	56.45	57.61	57.19	0.20	0.25	0.27	0.11	0.28	0.36
900	61.33	59.23	56.22	0.20	0.24	0.29	0.13	0.31	0.44
1000	61.46	56.38	54.00	0.23	0.29	0.34	0.18	0.36	0.51
1100	55.66	52.76	50.69	0.21	0.27	0.34	0.21	0.42	0.58
1200	52.79	50.71	48.43	0.24	0.31	0.39	0.26	0.52	0.72
1300	51.06	47.40	44.75	0.28	0.37	0.48	0.40	0.70	0.94
1400	42.55	39.57	37.62	0.34	0.47	0.59	0.70	0.97	1.17
1500	34.94	34.15	33.46	0.49	0.67	0.80	0.80	0.98	1.17
1600	32.57	32.03	31.49	0.70	0.93	1.11	0.66	0.95	1.23
1700	30.68	29.98	29.39	0.92	1.17	1.37	0.70	1.08	1.43
1800	28.58	27.81	27.19	1.29	1.47	1.66	0.84	1.33	1.79
1900	26.39	25.47	24.85	1.50	1.73	1.96	1.12	1.77	2.36
2000	23.75	22.92	22.51	1.72	2.04	2.35	1.67	2.54	3.23
2100	21.02	20.59	20.49	2.10	2.53	2.93	2.71	3.70	4.22
2200	18.99	19.12	19.39	2.79	3.33	3.78	4.08	4.57	4.52
2300	17.95	18.67	19.08	3.71	4.32	4.85	4.64	4.21	3.91
2400	18.23	19.17	19.52	4.72	5.40	5.99	3.70	3.27	3.12
2500	19.06	19.80	19.93	5.59	6.23	6.87	2.61	2.48	2.53

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
22.0	29.96	30.83	30.81
23.0	42.61	43.51	44.07
24.0	55.75	56.75	57.15
25.0	67.71	68.40	68.64
26.0	75.33	75.64	75.66
27.0	78.42	78.32	78.23
28.0	76.61	76.26	76.00
29.0	70.06	69.47	69.03
30.0	60.91	60.33	59.98
30.5	56.72	56.21	55.90
31.0	53.13	52.70	52.48
31.5	50.21	49.92	49.74
32.0	47.86	47.52	47.39
32.5	45.91	45.71	45.61
33.0	44.30	44.12	44.02
33.5	43.13	42.98	42.89
34.0	42.07	41.93	41.87
34.5	41.18	41.09	41.04
35.0	40.44	40.41	40.39
35.5	39.92	39.86	39.90
36.0	39.49	39.45	39.47
36.5	39.19	39.23	39.26
37.0	39.01	38.99	39.03
37.5	38.92	38.94	39.05
38.0	38.92	38.98	39.01
38.5	39.12	39.17	39.24
39.0	39.25	39.34	39.43
39.5	39.67	39.80	39.88
40.0	40.16	40.29	40.37
41.0	41.64	41.77	41.87
42.0	43.69	43.82	43.89
43.0	46.05	46.20	46.24
44.0	48.35	48.41	48.32
45.0	49.64	49.46	49.32
46.0	49.33	49.01	48.74
47.0	47.12	46.68	46.21
48.0	43.29	42.72	42.24
49.0	38.13	37.58	37.19
50.0	32.76	32.20	31.80
51.0	27.52	27.15	26.83
52.0	23.21	22.82	22.68
53.0	19.61	19.33	19.16
54.0	16.72	16.49	16.32
55.0	14.38	14.32	14.15
56.0	12.58	12.45	12.51
57.0	10.99	10.87	10.90
58.0	9.70	9.65	9.59
59.0	8.57	8.74	8.63
60.0	7.69	7.65	7.70
62.0	6.08	6.27	6.17
63.0	5.29	5.60	5.71
64.0	4.35	4.21	4.82
65.0	3.89	3.97	3.78
66.0	2.69	2.15	2.58
67.0	0.78	0.81	1.06

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