

Band Pass Filter

SXBP-45-75+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C
0.3	88.93	83.91	81.76	0.00	0.01	0.01	0.05	0.06	0.08
1.0	37.12	36.72	36.44	0.12	0.12	0.13	0.44	0.56	0.65
2.0	32.26	36.66	39.93	0.66	0.65	0.62	0.86	0.91	0.92
2.4	7.88	6.90	6.24	2.05	2.26	2.45	1.97	2.17	2.34
2.9	1.12	1.02	0.96	11.65	12.28	12.77	11.63	12.32	12.87
3.6	0.54	0.53	0.52	20.88	21.45	21.92	23.69	25.68	27.62
4.2	0.46	0.45	0.46	22.09	22.84	23.43	27.16	30.82	34.95
4.6	0.43	0.43	0.44	22.01	22.87	23.54	27.28	30.90	34.26
5.0	0.42	0.42	0.42	21.81	22.75	23.51	26.81	29.94	32.44
10.0	0.37	0.38	0.38	21.21	22.24	23.09	22.52	23.51	24.32
12.0	0.37	0.38	0.39	21.36	22.30	23.07	21.86	22.65	23.33
14.0	0.38	0.38	0.39	21.56	22.40	23.10	21.42	22.08	22.67
22.0	0.39	0.40	0.41	23.10	23.58	24.00	21.00	21.50	21.91
25.0	0.39	0.40	0.41	24.16	24.57	24.92	21.38	21.91	22.27
36.0	0.42	0.43	0.45	33.14	34.99	36.20	26.46	27.79	28.35
37.5	0.42	0.44	0.46	34.57	37.05	39.24	27.90	29.60	30.35
42.0	0.44	0.47	0.49	30.76	31.10	31.73	32.68	35.89	38.18
51.5	0.52	0.56	0.58	21.87	21.68	21.78	23.61	23.43	23.51
61.0	0.64	0.68	0.71	19.10	18.99	19.05	19.08	19.19	19.31
65.0	0.68	0.73	0.76	19.24	19.17	19.24	18.71	18.96	19.12
75.0	0.81	0.87	0.92	22.04	21.61	21.47	20.91	21.19	21.31
76.0	0.83	0.90	0.94	22.07	21.55	21.36	21.19	21.33	21.40
79.5	0.92	1.00	1.05	21.05	20.37	20.15	21.40	21.01	20.86
82.5	1.02	1.10	1.17	19.86	19.34	19.22	21.08	20.42	20.24
84.0	1.08	1.17	1.24	19.66	19.26	19.21	21.21	20.53	20.39
84.5	1.10	1.19	1.26	19.70	19.33	19.32	21.36	20.68	20.58
85.0	1.12	1.21	1.29	19.79	19.48	19.51	21.59	20.93	20.85
88.5	1.33	1.43	1.53	23.32	23.57	23.94	28.78	28.45	28.74
89.5	1.41	1.53	1.64	25.01	25.08	25.04	34.21	33.30	31.26
92.0	1.81	1.98	2.13	18.13	17.14	16.44	18.23	17.42	16.62
94.0	2.50	2.76	2.99	11.53	10.86	10.43	11.37	10.81	10.36
96.0	3.79	4.18	4.49	7.16	6.77	6.54	7.01	6.67	6.42
98.0	5.82	6.32	6.71	4.44	4.26	4.17	4.31	4.15	4.04
104.0	14.74	15.35	15.81	1.62	1.70	1.75	1.47	1.53	1.57
108.0	21.40	21.99	22.44	1.23	1.32	1.39	1.04	1.12	1.16
114.0	31.95	32.54	33.00	1.03	1.13	1.19	0.79	0.87	0.91
120.0	45.04	45.77	46.38	0.96	1.05	1.11	0.66	0.74	0.78
124.0	57.45	57.82	57.78	0.93	1.02	1.07	0.60	0.68	0.72
136.0	52.70	52.82	52.95	0.89	0.96	1.01	0.49	0.56	0.59
154.0	70.40	69.97	69.87	0.86	0.92	0.96	0.39	0.45	0.48
158.0	68.03	67.22	66.65	0.86	0.91	0.95	0.37	0.43	0.47
170.0	58.78	58.57	58.22	0.85	0.89	0.93	0.33	0.39	0.42
210.0	55.74	55.68	55.68	0.84	0.85	0.87	0.24	0.30	0.33
290.0	64.17	64.46	64.72	0.95	0.98	0.95	0.15	0.20	0.23
360.0	65.07	65.26	65.48	1.42	1.35	1.30	0.10	0.16	0.18
490.0	81.46	85.00	88.00	1.63	1.90	1.91	0.05	0.10	0.13
710.0	76.72	75.48	76.38	4.57	4.75	4.73	0.01	0.06	0.09
900.0	75.57	75.46	75.02	1.73	1.68	1.74	0.02	0.07	0.12
1050.0	65.21	65.02	65.13	1.26	1.36	1.42	0.01	0.10	0.15
1090.0	79.68	77.99	76.78	1.22	1.33	1.37	0.02	0.12	0.17
1200.0	69.54	69.40	69.04	1.20	1.35	1.40	0.07	0.17	0.23
1400.0	68.05	68.49	67.95	1.69	2.22	2.28	0.19	0.30	0.36
1500.0	67.77	68.04	67.63	2.84	3.19	3.34	0.27	0.38	0.45
1825.0	55.66	55.37	54.83	1.37	1.71	1.89	0.49	0.61	0.68
1950.0	60.52	60.79	60.32	1.56	2.04	2.18	0.55	0.67	0.76
2000.0	57.63	57.07	57.25	1.75	2.32	2.47	0.56	0.69	0.78
2375.0	53.75	53.33	53.20	4.92	4.69	4.74	0.53	0.71	0.78
2500.0	47.94	47.60	47.53	4.35	4.39	4.51	0.49	0.66	0.72
2650.0	53.25	53.31	52.29	4.63	5.27	5.46	0.35	0.54	0.61
3000.0	47.79	48.39	51.84	9.35	11.51	11.56	0.00	0.19	0.28

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FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
5	70.94	69.99	69.21
6	49.08	48.50	48.03
7	37.10	36.71	36.40
8	29.64	29.36	29.19
9	24.72	24.45	24.38
10	21.26	21.09	20.94
12	16.40	16.29	16.19
14	14.66	14.62	14.57
16	12.91	12.87	12.84
18	11.71	11.68	11.66
20	10.88	10.87	10.86
22	10.30	10.30	10.30
24	9.87	9.88	9.88
26	9.57	9.57	9.58
28	9.35	9.36	9.37
30	9.19	9.20	9.21
31	9.14	9.15	9.16
32	9.08	9.10	9.12
33	9.05	9.05	9.07
34	9.02	9.03	9.05
35	9.00	9.01	9.03
36	8.99	9.00	9.01
37	8.99	9.00	9.01
38	8.98	8.99	9.01
39	8.98	8.99	9.01
40	9.00	9.01	9.03
41	9.01	9.03	9.05
42	9.03	9.04	9.07
43	9.05	9.06	9.08
44	9.07	9.09	9.11
45	9.11	9.14	9.15
46	9.14	9.16	9.18
47	9.18	9.19	9.22
48	9.22	9.25	9.27
49	9.26	9.29	9.31
50	9.31	9.33	9.36
51	9.37	9.39	9.41
52	9.43	9.45	9.47
53	9.49	9.52	9.54
54	9.57	9.57	9.61
55	9.63	9.65	9.68
56	9.71	9.73	9.76
57	9.78	9.82	9.85
58	9.88	9.91	9.94
60	10.08	10.11	10.15
62	10.31	10.36	10.40
64	10.58	10.63	10.68
66	10.89	10.95	11.00
68	11.24	11.31	11.37
70	11.66	11.73	11.80
72	12.13	12.21	12.28
74	12.65	12.74	12.82
76	13.24	13.33	13.42
78	13.91	14.00	14.12
80	14.68	14.78	14.90
82	15.59	15.71	15.86
83	16.11	16.25	16.41
84	16.71	16.87	17.05
85	17.04	17.22	17.40
85	17.39	17.58	17.77