

Surface Mount Band Pass Filter

BPF-C45+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURNLOSS (dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
0.5	78.86	78.98	79.07	0.00	0.00	0.00	0.00	0.00	0.00
5.0	62.13	62.09	62.26	0.01	0.00	0.01	0.02	0.02	0.03
15.0	73.17	73.01	74.55	0.07	0.07	0.07	0.20	0.24	0.27
20.0	60.92	61.81	62.11	0.16	0.16	0.17	0.34	0.37	0.39
21.0	51.55	51.04	50.86	0.19	0.19	0.21	0.36	0.39	0.41
22.0	39.18	38.92	38.81	0.24	0.24	0.25	0.38	0.41	0.43
23.0	30.80	30.58	30.48	0.29	0.30	0.32	0.42	0.44	0.47
24.0	23.76	23.56	23.46	0.39	0.39	0.42	0.47	0.49	0.53
25.0	17.38	17.17	17.06	0.58	0.59	0.63	0.60	0.64	0.68
26.0	11.40	11.20	11.07	1.06	1.09	1.16	0.99	1.06	1.13
27.0	6.10	5.94	5.84	2.50	2.60	2.74	2.29	2.44	2.61
28.0	2.45	2.39	2.38	6.53	6.78	7.07	6.02	6.35	6.66
29.0	0.98	0.99	1.03	15.45	15.88	16.40	13.78	14.33	14.87
30.0	0.65	0.67	0.71	25.43	26.67	28.37	21.59	22.32	23.33
40.0	0.35	0.38	0.40	23.61	24.21	24.44	24.71	25.32	25.64
45.0	0.34	0.37	0.39	22.77	23.94	25.33	22.94	24.09	25.56
50.0	0.33	0.36	0.39	33.68	36.15	38.82	31.57	34.45	40.44
55.0	0.36	0.40	0.44	27.66	27.44	26.64	30.22	29.80	28.40
60.0	0.43	0.46	0.50	22.10	22.62	22.82	23.05	23.46	23.40
65.0	0.49	0.53	0.58	21.86	22.49	22.92	21.92	22.40	22.59
70.0	0.58	0.64	0.68	23.69	24.10	24.45	22.60	22.93	23.20
75.0	0.75	0.81	0.87	23.49	24.40	25.41	23.04	23.99	25.17
80.0	1.05	1.14	1.23	29.14	30.93	31.42	34.31	41.57	39.07
85.0	2.02	2.21	2.42	19.63	18.91	18.37	26.45	26.98	27.91
87.5	4.88	5.41	5.94	7.39	7.02	6.74	8.90	8.39	7.99
88.0	6.24	6.87	7.49	5.67	5.42	5.24	6.77	6.40	6.13
89.0	9.98	10.76	11.49	3.41	3.36	3.33	4.03	3.89	3.80
90.0	14.70	15.54	16.32	2.29	2.32	2.37	2.65	2.62	2.61
95.0	48.41	49.62	50.66	1.01	1.08	1.15	1.01	1.05	1.09
100.0	56.68	56.07	55.49	0.76	0.82	0.87	0.68	0.73	0.76
110.0	44.92	45.11	45.21	0.61	0.65	0.68	0.47	0.51	0.53
120.0	50.83	51.17	51.43	0.57	0.60	0.63	0.39	0.42	0.44
130.0	67.42	66.98	66.38	0.56	0.59	0.61	0.33	0.37	0.38
140.0	53.59	53.74	53.56	0.57	0.60	0.61	0.30	0.34	0.36
150.0	50.25	50.25	50.26	0.57	0.60	0.62	0.28	0.32	0.34
160.0	49.21	49.13	49.10	0.57	0.60	0.63	0.26	0.31	0.33
170.0	48.93	48.89	48.78	0.57	0.61	0.64	0.24	0.29	0.32
180.0	49.05	49.04	48.97	0.57	0.62	0.65	0.23	0.29	0.32
190.0	49.52	49.50	49.47	0.57	0.62	0.65	0.22	0.28	0.30
200.0	50.11	50.06	50.01	0.57	0.63	0.67	0.22	0.27	0.29
250.0	53.64	53.40	53.48	0.55	0.64	0.71	0.18	0.26	0.30
300.0	56.82	56.73	56.79	0.56	0.67	0.75	0.18	0.26	0.29
350.0	59.65	59.72	59.52	0.59	0.70	0.79	0.17	0.27	0.31
400.0	61.67	61.88	62.24	0.61	0.74	0.83	0.18	0.28	0.32
450.0	63.54	64.01	63.70	0.64	0.79	0.88	0.18	0.29	0.34
500.0	64.65	64.60	64.92	0.67	0.83	0.94	0.18	0.30	0.35
600.0	67.28	67.27	67.54	0.74	0.93	1.05	0.19	0.34	0.39
700.0	67.75	68.89	68.63	0.82	1.04	1.18	0.21	0.37	0.44
1000.0	73.39	70.72	72.95	1.05	1.31	1.50	0.30	0.50	0.58
1500.0	75.86	60.19	75.83	1.54	1.83	1.99	0.44	0.75	0.90
2000.0	58.18	62.06	61.51	1.46	1.77	2.00	0.57	0.93	1.18
2500.0	55.95	56.25	64.65	3.08	3.35	3.43	0.69	1.07	1.25

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
30.00	72.86	72.41	71.80
30.50	64.80	64.34	64.35
30.75	60.65	61.09	60.08
31.00	58.54	58.27	58.00
31.50	54.23	54.31	53.62
31.75	51.63	52.09	52.17
32.00	49.66	49.16	49.83
32.50	47.84	47.82	47.69
33.00	44.84	44.57	44.46
33.50	43.10	43.22	43.09
34.00	40.94	40.96	40.71
34.50	39.43	39.35	39.16
35.00	37.54	37.74	37.53
35.50	36.57	36.56	36.56
36.00	34.81	34.54	34.53
36.50	33.85	33.65	33.58
37.00	32.83	32.66	32.40
37.50	31.36	31.67	31.61
38.00	30.86	30.39	30.49
38.50	29.61	29.45	29.83
39.00	28.73	28.70	28.72
39.50	27.73	27.87	27.74
40.00	27.56	27.28	27.62
40.50	27.23	27.47	27.08
41.00	26.47	26.38	26.38
42.00	25.45	25.43	25.31
43.00	24.51	24.65	24.59
44.00	23.65	23.63	23.70
45.00	22.87	22.93	22.90
46.00	22.38	22.33	22.26
47.00	21.71	22.00	21.88
48.00	21.54	21.46	21.42
49.00	21.05	21.10	21.02
50.00	21.05	20.99	20.89
51.00	20.40	20.42	20.36
52.00	20.20	20.23	20.13
53.00	19.79	19.91	19.94
54.00	19.63	19.70	19.64
55.00	19.66	19.62	19.63
56.00	19.55	19.38	19.38
57.00	19.42	19.41	19.53
58.00	19.28	19.28	19.31
59.00	19.28	19.50	19.39
60.00	19.34	19.31	19.39
61.00	19.57	19.45	19.65
62.00	19.59	19.55	19.67
63.00	19.57	19.48	19.60
64.00	19.81	20.04	19.94
65.00	20.20	20.31	20.24
66.00	20.60	20.54	20.71
67.00	20.77	20.70	20.84
68.00	21.10	21.23	21.32
69.00	21.50	21.62	21.73
70.00	21.98	22.11	22.07

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