

Surface Mount Band Pass Filter

BPF-C138+

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	75.19	75.15	74.80	0.01	0.01	0.00	0.00	0.00	0.01
10	49.64	49.67	49.67	0.02	0.01	0.01	0.03	0.03	0.04
20	45.15	45.17	45.08	0.00	0.01	0.00	0.04	0.06	0.08
30	44.85	44.87	44.87	0.01	0.01	0.02	0.11	0.16	0.19
40	48.86	49.06	49.25	0.02	0.03	0.03	0.23	0.28	0.32
50	73.18	72.72	70.38	0.03	0.04	0.04	0.37	0.42	0.45
60	53.41	53.67	53.73	0.07	0.09	0.09	0.44	0.52	0.58
70	48.11	47.40	46.93	0.14	0.17	0.18	0.51	0.61	0.71
80	34.05	33.98	33.98	0.29	0.33	0.36	0.68	0.81	0.95
87	34.85	33.40	31.81	0.59	0.65	0.72	1.03	1.21	1.39
90	19.47	18.88	18.23	0.93	1.04	1.15	1.45	1.73	1.95
93	10.05	9.76	9.42	2.05	2.27	2.53	2.69	3.15	3.57
95	5.68	5.56	5.42	4.07	4.43	4.85	4.84	5.56	6.24
97	3.06	3.10	3.13	7.85	8.32	8.88	8.95	10.00	11.02
99	1.84	1.97	2.06	13.34	13.70	14.18	15.44	16.94	18.55
100	1.54	1.69	1.80	16.34	16.48	16.75	19.79	21.59	23.67
105	1.03	1.16	1.26	19.24	18.88	18.65	21.41	20.98	20.70
110	0.86	0.99	1.07	18.57	18.38	18.21	19.16	19.02	18.85
120	0.69	0.81	0.88	21.65	21.51	21.28	20.36	20.24	19.95
130	0.64	0.73	0.82	21.86	22.25	22.54	20.68	21.03	21.10
138	0.61	0.72	0.79	21.88	22.52	22.89	21.52	22.21	22.36
140	0.61	0.72	0.80	22.30	23.01	23.38	22.13	22.89	23.03
150	0.62	0.74	0.83	29.26	29.01	27.00	28.75	27.63	25.16
160	0.72	0.86	0.97	21.80	21.39	20.62	21.20	20.70	19.79
170	0.95	1.10	1.23	16.57	17.21	17.79	16.78	17.59	18.34
180	1.29	1.53	1.72	18.95	19.81	20.52	20.91	22.61	24.40
188	3.40	4.08	4.70	8.53	8.05	7.68	10.29	9.87	9.48
190	5.75	6.66	7.49	4.76	4.61	4.52	5.86	5.78	5.66
192	9.52	10.59	11.55	2.69	2.74	2.79	3.43	3.54	3.59
195	17.11	18.32	19.36	1.43	1.57	1.68	1.87	2.07	2.18
200	35.19	36.67	37.75	0.87	0.99	1.10	1.09	1.26	1.36
201	40.57	41.60	42.01	0.82	0.95	1.05	1.01	1.18	1.28
210	38.94	39.31	39.69	0.59	0.67	0.76	0.63	0.76	0.83
220	49.02	49.92	50.70	0.47	0.56	0.61	0.46	0.56	0.62
230	58.88	58.34	57.76	0.45	0.51	0.56	0.38	0.48	0.51
240	52.95	53.18	53.19	0.40	0.46	0.49	0.30	0.39	0.42
250	55.14	55.78	55.93	0.37	0.44	0.48	0.26	0.35	0.39
260	62.77	63.70	64.65	0.38	0.44	0.46	0.21	0.30	0.33
270	66.31	65.81	64.36	0.37	0.43	0.46	0.18	0.27	0.31
280	56.82	56.35	56.55	0.35	0.41	0.45	0.16	0.25	0.29
290	52.48	52.72	52.65	0.34	0.41	0.44	0.15	0.22	0.27
300	50.62	50.59	50.57	0.38	0.44	0.47	0.14	0.22	0.27
310	49.40	49.38	49.48	0.37	0.44	0.47	0.13	0.20	0.25
320	48.80	48.76	48.81	0.35	0.42	0.46	0.12	0.20	0.24
330	48.63	48.44	48.49	0.35	0.42	0.47	0.11	0.18	0.23
340	48.57	48.53	48.63	0.34	0.41	0.46	0.09	0.17	0.21
350	48.62	48.64	48.59	0.36	0.43	0.48	0.09	0.17	0.21
400	51.03	50.90	50.88	0.32	0.40	0.46	0.05	0.14	0.18
450	54.64	54.61	54.55	0.30	0.40	0.46	0.03	0.13	0.18
500	59.44	59.41	59.68	0.28	0.39	0.46	0.03	0.13	0.17
550	67.71	66.95	68.11	0.29	0.42	0.49	0.03	0.14	0.18
600	80.83	81.68	92.97	0.30	0.43	0.51	0.03	0.15	0.19
650	68.72	68.48	71.10	0.33	0.48	0.57	0.04	0.16	0.23
700	65.36	65.79	66.23	0.34	0.51	0.60	0.05	0.18	0.23
750	64.76	65.58	66.53	0.37	0.55	0.65	0.06	0.20	0.25

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
105	22.80	22.48	22.14
106	21.49	21.30	21.01
108	19.40	19.19	19.06
110	17.76	17.65	17.47
112	16.83	16.74	16.61
113	16.32	16.21	16.08
114	15.84	15.71	15.62
115	15.40	15.26	15.21
116	15.02	14.90	14.83
118	14.37	14.25	14.18
120	13.79	13.72	13.62
122	13.31	13.25	13.17
123	13.08	13.07	12.99
124	12.94	12.87	12.82
125	12.76	12.74	12.69
126	12.59	12.56	12.52
128	12.31	12.23	12.19
130	12.06	12.05	11.99
132	11.84	11.80	11.79
133	11.72	11.75	11.73
134	11.66	11.69	11.64
135	11.60	11.61	11.59
136	11.55	11.59	11.58
137	11.55	11.55	11.55
138	11.50	11.50	11.49
140	11.44	11.45	11.43
142	11.43	11.45	11.43
143	11.49	11.45	11.46
144	11.48	11.51	11.50
145	11.47	11.48	11.50
146	11.55	11.55	11.55
147	11.54	11.55	11.54
148	11.55	11.60	11.62
150	11.75	11.76	11.73
152	11.85	11.86	11.88
153	11.95	11.97	11.96
154	12.08	12.05	12.05
155	12.14	12.11	12.15
156	12.26	12.27	12.27
158	12.46	12.50	12.50
160	12.73	12.79	12.77
162	13.09	13.09	13.15
163	13.25	13.27	13.32
164	13.40	13.48	13.53
165	13.62	13.70	13.78
166	13.90	13.97	14.05
168	14.37	14.52	14.60
170	15.01	15.17	15.27
172	15.79	15.99	16.16
173	16.25	16.48	16.66
174	16.81	17.03	17.24
175	17.35	17.61	17.87
176	18.03	18.32	18.59
178	19.66	19.99	20.28
180	21.77	22.23	22.56

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