

# Surface Mount Band Pass Filter

# BPF-C141+

## 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	71.96	72.74	72.28	0.00	0.00	0.00	0.01	0.01	0.00
10	46.28	46.28	46.28	0.00	0.00	0.00	0.01	0.02	0.03
20	41.64	41.61	41.59	0.00	0.01	0.01	0.05	0.08	0.10
30	40.79	40.82	40.82	0.01	0.02	0.02	0.13	0.18	0.21
40	43.61	43.75	43.87	0.03	0.04	0.04	0.25	0.31	0.34
50	61.75	62.15	62.99	0.05	0.06	0.07	0.38	0.44	0.47
60	43.38	43.39	43.32	0.09	0.11	0.12	0.48	0.55	0.59
70	38.78	38.80	38.77	0.16	0.19	0.21	0.54	0.64	0.71
80	45.33	45.73	46.02	0.29	0.34	0.38	0.61	0.75	0.84
90	47.46	47.65	47.50	0.62	0.72	0.80	0.80	0.98	1.10
92	39.47	37.88	36.77	0.75	0.88	0.98	0.89	1.08	1.21
96	18.89	18.37	17.96	1.32	1.56	1.74	1.28	1.56	1.73
100	6.70	6.58	6.47	4.05	4.70	5.19	3.55	4.13	4.53
110	1.03	1.19	1.30	21.14	20.92	20.79	19.64	19.49	19.35
120	0.73	0.86	0.95	24.10	24.43	24.47	22.00	21.81	21.57
130	0.70	0.82	0.89	18.06	18.23	18.35	18.30	18.27	18.18
140	0.72	0.84	0.92	15.83	15.83	15.79	16.22	16.11	15.92
141	0.72	0.84	0.92	15.80	15.80	15.75	16.16	16.05	15.86
150	0.72	0.84	0.93	16.83	16.87	16.79	16.76	16.66	16.38
160	0.74	0.88	0.97	20.23	20.19	19.92	18.70	18.40	17.93
170	0.85	1.00	1.10	18.41	18.80	18.96	17.18	17.31	17.28
180	1.05	1.23	1.33	16.05	16.92	17.72	16.01	16.83	17.62
190	1.33	1.59	1.76	21.71	23.44	25.39	22.45	24.32	26.63
200	3.12	3.80	4.32	11.46	10.79	10.23	13.34	12.85	12.33
204	7.38	8.50	9.38	4.22	4.18	4.12	5.35	5.36	5.25
210	20.96	22.29	23.35	1.32	1.50	1.61	1.81	2.01	2.09
213	30.27	31.75	32.93	0.98	1.15	1.26	1.34	1.51	1.59
215	38.46	39.85	40.79	0.86	1.01	1.11	1.14	1.30	1.38
217	45.22	44.19	43.49	0.77	0.91	1.01	0.99	1.14	1.22
250	53.64	53.73	53.82	0.40	0.47	0.52	0.34	0.43	0.46
300	64.65	63.99	63.44	0.38	0.44	0.47	0.16	0.26	0.30
400	49.40	49.32	49.31	0.31	0.39	0.45	0.06	0.16	0.20
500	53.46	53.60	53.56	0.23	0.34	0.40	0.02	0.13	0.18
600	59.97	60.16	60.28	0.21	0.33	0.40	0.00	0.13	0.18
700	74.85	74.54	75.25	0.22	0.36	0.43	0.00	0.14	0.20
800	49.01	49.95	50.82	0.25	0.41	0.49	0.02	0.18	0.24
900	58.96	59.11	59.05	0.29	0.47	0.56	0.00	0.18	0.25
950	52.75	52.52	52.33	0.36	0.55	0.66	0.02	0.19	0.26
1000	47.14	48.39	49.54	0.54	0.71	0.79	0.01	0.20	0.27
1100	61.28	62.23	62.24	0.36	0.56	0.66	0.03	0.22	0.30
1200	62.94	63.46	64.04	0.38	0.58	0.69	0.03	0.24	0.32
1300	68.40	71.90	71.05	0.39	0.59	0.70	0.25	0.40	0.45
1400	68.07	69.15	69.45	0.38	0.58	0.70	0.05	0.28	0.36
1500	70.57	74.52	71.91	0.36	0.57	0.69	0.06	0.30	0.40
1600	62.67	64.22	64.56	0.35	0.56	0.68	0.08	0.32	0.43
1700	62.38	60.08	64.08	0.34	0.53	0.66	0.08	0.34	0.46
1800	67.41	71.01	66.48	0.31	0.52	0.62	0.08	0.34	0.49
1900	66.44	60.39	65.65	0.30	0.50	0.60	0.08	0.36	0.52
2000	62.61	60.63	59.68	0.30	0.49	0.61	0.09	0.37	0.54
2100	61.67	62.41	60.16	0.31	0.51	0.61	0.09	0.39	0.56
2200	58.79	55.22	58.96	0.46	0.60	0.70	0.09	0.39	0.57
2300	57.04	58.00	56.71	0.33	0.49	0.61	0.08	0.41	0.58
2400	51.29	54.49	50.55	0.37	0.52	0.65	0.07	0.41	0.59
2500	58.11	49.13	60.01	0.44	0.61	0.73	0.05	0.43	0.57

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
108.0	26.87	26.74	26.10
108.5	26.15	25.52	25.23
109.0	25.37	24.83	24.54
109.5	24.18	23.82	23.40
110.0	23.33	22.66	22.46
110.5	22.56	22.25	22.09
111.0	21.83	21.47	21.34
111.5	21.40	21.33	20.90
112.0	20.72	20.40	20.18
112.5	20.49	20.08	19.92
113.0	19.57	19.50	19.15
113.5	19.33	18.86	19.05
114.0	18.85	19.07	18.67
114.5	18.34	18.13	18.19
115.0	18.14	18.06	17.91
117.5	16.62	16.49	16.41
120.0	15.39	15.29	15.22
122.5	14.38	14.27	14.25
125.0	13.59	13.58	13.49
127.5	12.85	12.87	12.80
130.0	12.26	12.24	12.22
132.5	11.81	11.79	11.84
135.0	11.43	11.42	11.42
137.5	11.09	11.07	11.03
140.0	10.88	10.89	10.84
141.0	10.84	10.88	10.84
142.0	10.81	10.78	10.80
143.0	10.71	10.76	10.72
144.0	10.67	10.68	10.73
145.0	10.71	10.62	10.57
147.5	10.57	10.57	10.57
150.0	10.59	10.55	10.60
152.5	10.57	10.55	10.51
155.0	10.68	10.66	10.65
157.5	10.73	10.75	10.69
160.0	10.86	10.92	10.88
162.5	10.92	10.97	10.91
165.0	11.17	11.19	11.19
167.5	11.55	11.51	11.57
170.0	11.73	11.72	11.79
175.0	12.36	12.43	12.58
176.0	12.60	12.69	12.73
177.0	12.74	12.83	12.96
178.0	12.95	13.25	13.20
179.0	13.29	13.52	13.52
180.0	13.42	13.65	13.81
181.0	13.84	13.90	14.25
182.0	14.06	14.21	14.35
183.0	14.76	14.93	15.11
184.0	14.90	15.24	15.28
185.0	15.27	15.51	15.90
186.0	16.08	16.21	16.50
187.0	16.66	16.78	17.03
188.0	17.15	17.32	17.60

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