

# Surface Mount Band Pass Filter

# BPF-B140N+

## 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	84.09	84.73	85.83	0.44	0.62	0.76	0.48	0.66	0.78
1	93.02	84.84	97.09	0.47	0.62	0.76	0.49	0.66	0.82
2	87.66	84.29	89.13	0.47	0.64	0.78	0.51	0.67	0.82
3	85.02	84.97	87.34	0.48	0.64	0.78	0.51	0.67	0.82
5	81.80	90.21	82.61	0.49	0.65	0.80	0.51	0.67	0.83
10	82.89	86.21	79.76	0.49	0.63	0.76	0.51	0.67	0.80
20	84.08	78.42	77.90	0.43	0.54	0.66	0.46	0.59	0.69
30	78.45	76.47	78.20	0.36	0.44	0.52	0.39	0.47	0.55
40	82.27	79.59	81.31	0.29	0.35	0.41	0.32	0.38	0.43
50	82.54	81.54	77.91	0.22	0.26	0.30	0.26	0.32	0.35
60	79.86	77.69	85.16	0.18	0.20	0.22	0.20	0.25	0.29
70	85.54	83.75	84.73	0.13	0.16	0.19	0.16	0.21	0.23
80	86.66	84.48	88.35	0.11	0.13	0.15	0.13	0.18	0.21
90	92.47	96.27	97.96	0.09	0.10	0.13	0.11	0.15	0.18
100	77.12	78.80	84.82	0.08	0.09	0.12	0.10	0.14	0.17
110	65.47	66.46	64.72	0.09	0.11	0.14	0.11	0.16	0.20
119	51.12	50.67	50.29	0.18	0.22	0.26	0.19	0.26	0.32
120	49.48	48.80	48.32	0.19	0.25	0.29	0.22	0.29	0.34
126	35.79	35.05	34.38	0.47	0.59	0.71	0.47	0.61	0.74
130	23.52	22.67	21.81	1.20	1.54	1.89	1.15	1.50	1.83
135	6.00	6.22	6.39	12.51	15.55	18.73	12.27	15.52	18.57
137	4.10	4.66	5.06	31.91	32.78	34.67	24.94	22.73	22.09
138	3.83	4.40	4.85	38.04	44.33	37.68	21.68	21.27	21.76
139	3.71	4.30	4.78	35.25	30.96	28.08	21.88	22.54	24.29
140	3.67	4.28	4.81	25.87	24.10	22.72	24.48	26.92	31.56
142	3.82	4.52	5.14	18.96	18.55	18.35	25.10	23.99	22.52
143	4.03	4.81	5.53	18.64	19.19	19.73	21.92	21.71	21.08
145	5.31	6.68	8.03	16.76	13.51	11.14	15.60	13.00	11.05
150	20.73	22.26	23.65	1.70	1.78	1.82	1.83	1.95	1.98
154	31.63	32.69	33.73	0.84	0.94	0.98	0.91	1.03	1.10
160	43.23	44.00	44.60	0.46	0.52	0.57	0.50	0.60	0.66
165	50.32	50.73	51.55	0.32	0.37	0.41	0.36	0.44	0.48
170	56.16	56.77	57.38	0.25	0.29	0.33	0.28	0.36	0.39
200	80.96	81.29	83.25	0.09	0.12	0.13	0.11	0.18	0.20
250	89.92	95.08	102.58	0.02	0.06	0.07	0.05	0.10	0.13
300	83.66	84.60	92.78	0.01	0.05	0.06	0.03	0.09	0.13
350	80.19	87.44	86.94	0.01	0.05	0.06	0.03	0.09	0.12
400	84.00	95.95	99.92	0.01	0.06	0.06	0.02	0.08	0.13
450	79.96	86.12	86.55	0.02	0.05	0.07	0.02	0.10	0.14
500	85.03	88.39	82.26	0.01	0.06	0.09	0.02	0.10	0.14
550	87.06	86.46	88.26	0.01	0.06	0.09	0.02	0.12	0.16
600	79.37	88.29	84.57	0.01	0.08	0.10	0.03	0.13	0.15
650	84.61	86.62	89.10	0.03	0.08	0.10	0.03	0.14	0.18
700	77.33	83.06	79.88	0.03	0.08	0.12	0.03	0.13	0.19
750	85.01	76.98	85.33	0.04	0.09	0.13	0.05	0.15	0.21
800	93.17	78.51	85.03	0.04	0.10	0.14	0.06	0.17	0.23
850	77.98	82.73	80.55	0.04	0.10	0.14	0.05	0.18	0.23
900	96.11	76.59	78.96	0.06	0.13	0.16	0.06	0.18	0.23
950	82.60	83.71	78.64	0.06	0.13	0.15	0.06	0.18	0.23
1000	82.93	84.02	79.74	0.06	0.14	0.16	0.07	0.20	0.25
1100	72.66	73.49	75.84	0.07	0.14	0.17	0.10	0.22	0.28
1200	73.48	75.29	73.10	0.10	0.16	0.22	0.09	0.22	0.29
1300	75.00	78.72	77.12	0.10	0.17	0.19	0.09	0.24	0.31
1400	76.39	70.51	74.14	0.08	0.17	0.20	0.09	0.24	0.32
1500	73.93	67.01	73.74	0.09	0.18	0.22	0.09	0.25	0.32

REV. X1

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# BPF-B140N+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
135.0	96.94	94.62	92.24
135.5	96.51	93.08	90.21
136.0	93.92	90.27	87.25
136.5	90.23	86.71	84.31
137.0	86.27	83.41	81.54
137.3	84.51	82.03	80.23
137.5	82.97	80.70	79.16
137.8	81.38	79.59	78.10
138.0	80.08	78.47	77.25
138.3	78.98	77.46	76.58
138.5	77.96	76.69	76.12
138.8	77.04	76.13	75.45
139.0	76.32	75.66	75.05
139.3	75.74	75.19	74.81
139.5	75.33	74.85	74.55
139.8	74.90	74.58	74.62
140.0	74.64	74.35	74.37
140.3	74.50	74.37	74.45
140.5	74.32	74.42	74.71
140.8	74.37	74.50	74.89
141.0	74.38	74.77	75.38
141.3	74.63	75.06	75.79
141.5	75.04	75.50	76.43
141.8	75.36	76.17	77.20
142.0	75.83	76.95	77.97
142.3	76.64	77.85	79.23
142.5	77.50	78.89	80.48
142.8	78.62	80.23	81.79
143.0	79.76	81.43	83.19
143.5	83.04	84.66	85.93
144.0	86.62	87.59	87.85
144.5	89.92	89.64	88.16
145.0	91.92	89.51	86.36

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