

Surface Mount Band Pass Filter

BPF-B190+

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	99.11	97.96	96.94	0.34	0.43	0.50	0.34	0.44	0.52
1	100.04	91.28	95.28	0.33	0.43	0.51	0.35	0.44	0.53
5	83.91	85.66	85.43	0.37	0.46	0.55	0.37	0.47	0.56
10	85.72	79.45	80.71	0.40	0.48	0.57	0.39	0.50	0.59
15	79.04	82.95	77.87	0.41	0.49	0.57	0.38	0.47	0.56
20	81.82	77.15	79.18	0.40	0.47	0.54	0.39	0.46	0.54
30	77.55	77.54	76.73	0.35	0.41	0.46	0.35	0.40	0.46
40	80.09	77.58	77.61	0.31	0.35	0.40	0.30	0.35	0.38
50	82.39	77.40	77.07	0.26	0.30	0.33	0.26	0.30	0.32
60	79.63	78.54	78.94	0.22	0.26	0.28	0.22	0.25	0.27
70	85.32	80.20	82.93	0.19	0.23	0.25	0.18	0.21	0.24
80	83.14	89.83	86.70	0.17	0.20	0.22	0.14	0.18	0.21
90	82.53	90.00	83.20	0.14	0.18	0.20	0.12	0.16	0.18
100	82.76	82.28	88.41	0.13	0.17	0.18	0.10	0.14	0.17
110	84.46	88.23	96.05	0.12	0.15	0.16	0.09	0.13	0.15
120	89.32	95.27	87.55	0.10	0.15	0.16	0.07	0.12	0.14
130	81.20	80.65	82.07	0.11	0.15	0.17	0.08	0.13	0.14
140	70.92	70.66	70.29	0.11	0.17	0.18	0.08	0.13	0.15
150	61.09	60.69	60.83	0.13	0.19	0.21	0.10	0.15	0.20
155	55.93	55.67	55.38	0.16	0.22	0.25	0.13	0.19	0.22
160	50.08	49.65	49.10	0.20	0.28	0.31	0.17	0.25	0.29
170	34.70	34.07	33.36	0.43	0.58	0.67	0.45	0.60	0.71
180	11.23	10.62	9.97	3.30	4.32	5.47	3.69	4.89	6.20
185	3.58	4.05	4.36	24.79	23.62	22.28	35.24	30.85	28.58
190	2.97	3.50	3.90	23.84	24.87	26.67	30.75	28.50	26.92
195	3.23	3.89	4.45	23.82	24.12	25.24	21.31	20.72	20.52
200	6.63	8.32	9.89	8.56	7.52	6.64	7.24	6.31	5.56
210	27.98	29.11	30.15	1.01	1.14	1.19	0.87	0.99	1.05
212	31.20	32.23	33.19	0.83	0.96	1.02	0.73	0.84	0.90
220	41.58	42.34	43.05	0.49	0.60	0.64	0.43	0.52	0.57
230	50.97	51.50	52.16	0.32	0.42	0.45	0.27	0.36	0.39
240	58.13	58.72	59.10	0.25	0.34	0.36	0.20	0.28	0.30
250	63.76	64.11	65.20	0.21	0.29	0.32	0.16	0.23	0.27
260	67.85	69.26	70.95	0.18	0.28	0.29	0.12	0.20	0.22
270	73.30	73.07	74.33	0.17	0.26	0.28	0.11	0.18	0.20
280	76.62	74.80	77.82	0.14	0.24	0.27	0.09	0.16	0.19
290	80.43	79.31	79.86	0.14	0.24	0.26	0.08	0.15	0.18
300	85.95	86.75	77.96	0.13	0.23	0.25	0.07	0.15	0.17
400	86.39	84.92	87.70	0.11	0.23	0.27	0.04	0.12	0.15
500	81.84	97.09	89.81	0.12	0.26	0.32	0.04	0.13	0.17
600	106.76	89.39	88.42	0.16	0.31	0.37	0.04	0.15	0.19
700	80.59	81.60	95.20	0.18	0.35	0.42	0.06	0.18	0.23
800	87.67	94.98	87.73	0.21	0.39	0.48	0.08	0.21	0.27
900	78.89	86.35	84.62	0.24	0.43	0.52	0.09	0.23	0.28
1000	79.16	79.64	81.09	0.26	0.47	0.57	0.11	0.27	0.33
1100	73.38	76.04	73.21	0.30	0.49	0.62	0.13	0.28	0.36
1200	71.68	70.75	68.31	0.31	0.52	0.63	0.15	0.30	0.39
1300	67.15	68.63	68.27	0.32	0.53	0.66	0.16	0.32	0.40
1400	72.23	67.00	67.35	0.33	0.54	0.68	0.17	0.34	0.43
1500	70.76	67.41	65.87	0.35	0.55	0.68	0.18	0.36	0.44
1600	59.32	61.74	58.11	0.34	0.55	0.69	0.19	0.38	0.48
1700	61.61	56.74	59.83	0.30	0.54	0.67	0.16	0.34	0.43
1800	62.70	62.64	60.40	0.33	0.54	0.71	0.18	0.36	0.49
1900	51.42	55.22	51.98	0.34	0.56	0.72	0.20	0.39	0.50
2000	55.27	53.90	53.36	0.30	0.51	0.70	0.12	0.35	0.47

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BPF-B190+

090301

Page 1 of 2



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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
185.0	62.17	59.71	57.69
185.5	59.84	57.69	55.95
186.0	57.76	55.99	54.51
186.5	55.85	54.38	53.24
187.0	54.41	53.20	52.19
187.5	53.02	52.06	51.29
188.0	51.99	51.24	50.62
188.5	51.09	50.53	50.02
189.0	50.30	49.92	49.53
189.5	49.74	49.50	49.26
190.0	49.42	49.20	49.07
190.5	49.00	48.92	48.90
191.0	48.81	48.83	48.94
191.5	48.76	48.81	49.06
192.0	48.80	48.87	49.25
192.5	48.85	49.15	49.63
193.0	49.13	49.53	50.13
193.5	49.49	49.97	50.75
194.0	50.01	50.70	51.63
194.5	50.59	51.57	52.59
195.0	51.44	52.58	53.83

REV. X1
BPF-B190+
090301
Page 2 of 2



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