

# Surface Mount Band Pass Filter

# JCBP-290+

## 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	95.93	96.77	95.38	0.00	0.01	0.00	0.00	0.01	0.01
10	95.26	90.55	92.17	0.01	0.00	0.00	0.00	0.00	0.01
20	81.70	81.73	85.15	0.00	0.00	0.02	0.00	0.00	0.02
30	83.16	80.48	80.95	0.01	0.02	0.02	0.01	0.02	0.03
40	69.80	69.00	69.36	0.03	0.03	0.04	0.01	0.04	0.05
50	56.21	56.13	55.62	0.06	0.07	0.08	0.03	0.08	0.10
60	41.47	41.41	41.18	0.12	0.14	0.18	0.08	0.12	0.17
70	26.97	26.80	26.66	0.26	0.31	0.36	0.20	0.26	0.32
80	10.89	10.73	10.61	1.27	1.45	1.63	1.08	1.25	1.39
90	1.13	1.31	1.45	20.06	19.29	18.63	14.83	14.36	14.04
100	0.87	0.98	1.08	13.25	13.45	13.72	12.94	13.08	13.23
110	0.53	0.62	0.71	30.68	31.67	31.90	24.28	23.78	23.41
120	0.50	0.59	0.67	18.46	18.22	18.15	18.27	18.04	17.94
130	0.48	0.57	0.63	16.79	16.82	16.79	17.19	17.29	17.35
140	0.41	0.49	0.55	18.29	18.37	18.43	19.49	19.85	20.17
150	0.37	0.45	0.52	19.52	19.48	19.46	21.52	21.91	22.22
160	0.38	0.45	0.52	17.93	17.77	17.62	19.11	19.11	19.06
170	0.40	0.47	0.54	15.77	15.62	15.52	16.32	16.24	16.17
180	0.46	0.55	0.61	14.31	14.21	14.08	14.57	14.49	14.40
190	0.50	0.58	0.64	13.50	13.39	13.30	13.60	13.53	13.43
200	0.48	0.56	0.64	13.20	13.06	13.00	13.24	13.13	13.04
210	0.48	0.56	0.64	13.35	13.14	13.04	13.32	13.14	13.06
220	0.47	0.56	0.63	13.76	13.51	13.34	13.70	13.46	13.29
230	0.44	0.53	0.61	14.41	14.09	13.88	14.30	14.02	13.78
240	0.40	0.49	0.57	15.26	14.91	14.68	15.14	14.81	14.56
250	0.38	0.47	0.55	16.35	15.93	15.71	16.21	15.80	15.55
260	0.37	0.47	0.54	17.65	17.20	16.92	17.47	17.03	16.70
270	0.36	0.44	0.52	19.08	18.70	18.37	18.90	18.54	18.15
280	0.32	0.41	0.48	20.90	20.60	20.26	20.73	20.41	20.03
290	0.32	0.40	0.47	23.36	23.00	22.85	23.05	22.74	22.52
300	0.32	0.40	0.47	26.74	26.47	26.46	26.34	26.02	25.89
310	0.31	0.39	0.46	32.17	32.47	32.48	31.43	31.44	31.29
320	0.31	0.40	0.47	50.66	65.44	60.64	42.49	41.45	40.34
330	0.31	0.41	0.48	33.94	32.13	31.50	33.77	32.00	31.37
340	0.33	0.43	0.50	26.95	25.88	25.31	27.03	26.01	25.43
350	0.35	0.45	0.53	23.06	22.18	21.71	23.14	22.32	21.85
400	0.59	0.74	0.83	13.93	13.63	13.46	13.97	13.69	13.53
450	0.66	0.79	0.92	15.89	16.42	16.86	15.92	16.49	16.97
480	1.03	1.31	1.56	12.67	11.71	11.10	12.91	11.99	11.40
500	3.47	3.94	4.32	4.13	3.94	3.86	4.17	4.04	3.97
550	15.38	15.81	16.14	0.59	0.65	0.72	0.56	0.69	0.79
600	26.36	26.71	26.98	0.33	0.38	0.44	0.29	0.41	0.49
630	32.19	32.51	32.78	0.27	0.32	0.38	0.22	0.34	0.42
650	36.39	36.65	36.96	0.24	0.29	0.35	0.21	0.32	0.40
700	46.58	46.98	47.34	0.20	0.25	0.31	0.16	0.27	0.36
750	60.61	62.13	61.09	0.17	0.22	0.28	0.12	0.25	0.34
760	64.38	66.92	65.36	0.18	0.22	0.28	0.12	0.24	0.33
800	65.27	65.80	64.92	0.15	0.20	0.27	0.11	0.23	0.32
850	59.46	59.01	59.45	0.16	0.20	0.26	0.11	0.25	0.33
900	58.31	58.76	58.40	0.14	0.18	0.23	0.08	0.23	0.31
1000	59.52	59.28	60.31	0.16	0.21	0.27	0.14	0.29	0.37
1500	76.65	81.43	79.77	0.18	0.23	0.29	0.14	0.31	0.41
1800	66.52	73.18	65.90	0.22	0.28	0.34	0.16	0.33	0.46
1900	66.62	63.59	67.08	0.23	0.28	0.33	0.18	0.36	0.47
2000	61.60	62.42	62.18	0.24	0.29	0.34	0.13	0.34	0.48

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
100	15.83	15.88	15.78
101	15.52	15.46	15.46
102	15.18	15.14	15.14
103	14.83	14.82	14.67
104	14.46	14.46	14.44
105	14.10	14.03	14.04
106	13.62	13.63	13.67
107	13.48	13.38	13.40
108	13.09	13.13	13.17
109	12.81	12.66	12.72
110	11.96	11.93	11.89
120	10.57	10.52	10.53
130	8.83	8.81	8.78
140	7.65	7.64	7.63
150	6.82	6.81	6.80
160	6.15	6.14	6.13
170	5.61	5.61	5.60
180	5.16	5.16	5.15
190	4.77	4.77	4.76
200	4.51	4.51	4.50
210	4.31	4.30	4.29
220	4.12	4.11	4.10
230	3.98	3.97	3.97
240	3.90	3.88	3.88
250	3.80	3.80	3.79
260	3.70	3.70	3.69
270	3.64	3.65	3.63
280	3.62	3.62	3.62
290	3.57	3.57	3.57
300	3.53	3.54	3.54
310	3.52	3.52	3.52
320	3.51	3.52	3.53
330	3.51	3.52	3.52
340	3.51	3.52	3.52
350	3.53	3.54	3.54
360	3.56	3.56	3.57
370	3.57	3.58	3.58
380	3.61	3.61	3.61
390	3.65	3.64	3.64
400	3.68	3.68	3.68
410	3.74	3.75	3.75
420	3.85	3.87	3.88
430	3.98	4.00	4.02
440	4.17	4.20	4.24
450	4.40	4.48	4.41
460	5.06	5.13	5.22
470	5.71	5.77	5.83
480	6.34	6.45	6.44

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