

# Surface Mount Band Pass Filter

# BPF-A410+

## 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	87.19	107.46	98.68	0.01	0.00	0.01	0.00	0.00	0.00
10	87.41	84.17	88.83	0.00	0.01	0.00	0.01	0.02	0.02
50	74.54	75.71	75.72	0.01	0.01	0.02	0.30	0.39	0.44
100	78.41	76.85	79.07	0.01	0.04	0.05	0.92	1.10	1.22
200	82.25	81.38	82.09	0.09	0.14	0.16	0.56	0.70	0.79
250	69.26	69.39	69.59	0.19	0.24	0.28	1.50	1.84	2.06
260	64.87	64.86	64.42	0.23	0.28	0.32	1.63	2.02	2.31
270	59.12	59.13	58.87	0.26	0.32	0.36	1.67	2.07	2.38
275	56.35	56.15	56.07	0.29	0.35	0.38	1.64	2.03	2.31
280	53.31	53.17	53.05	0.31	0.38	0.42	1.58	1.95	2.21
290	46.97	46.89	46.82	0.37	0.45	0.49	1.42	1.73	1.94
300	40.46	40.38	40.27	0.47	0.55	0.61	1.25	1.53	1.70
310	33.64	33.55	33.42	0.59	0.70	0.78	1.19	1.46	1.62
320	26.42	26.31	26.15	0.80	0.96	1.07	1.34	1.63	1.81
330	18.68	18.53	18.33	1.25	1.50	1.71	1.88	2.30	2.57
340	10.66	10.57	10.42	2.66	3.19	3.71	3.56	4.42	5.10
350	4.58	4.87	5.04	8.13	9.27	10.54	9.24	10.85	12.43
360	2.58	3.04	3.36	22.61	24.84	28.91	18.50	18.01	17.73
365	2.30	2.74	3.06	39.22	36.71	29.52	21.34	19.51	18.18
370	2.14	2.57	2.89	27.35	24.39	21.83	22.01	19.55	17.71
380	1.97	2.38	2.68	21.17	19.90	18.58	19.88	18.49	17.21
390	1.86	2.25	2.53	21.73	21.47	20.66	22.35	22.22	21.98
400	1.82	2.21	2.50	20.91	20.37	19.20	31.86	32.69	29.49
410	1.88	2.28	2.58	16.35	15.70	14.89	18.63	17.77	16.81
420	1.95	2.36	2.66	14.50	14.08	13.60	15.10	14.56	13.99
430	1.94	2.36	2.64	15.96	15.96	15.79	15.84	15.67	15.39
440	1.93	2.36	2.66	22.50	22.79	22.40	23.21	23.94	23.91
450	2.07	2.56	2.90	19.26	17.80	16.70	22.87	20.52	18.74
455	2.21	2.72	3.08	16.34	15.47	14.76	17.70	16.55	15.47
460	2.35	2.88	3.25	15.28	14.96	14.65	15.48	14.88	14.18
470	2.63	3.22	3.63	19.66	21.94	24.34	15.63	15.60	15.26
480	3.28	4.11	4.72	20.81	19.65	18.83	14.94	13.68	12.73
485	4.13	5.26	6.13	21.70	21.54	22.11	11.99	10.58	9.66
490	6.57	8.28	9.63	11.14	10.63	10.02	6.74	6.09	5.62
495	11.95	14.00	15.59	4.80	4.93	4.86	3.31	3.36	3.34
500	18.68	20.66	22.21	2.70	2.97	3.05	2.12	2.36	2.47
515	37.15	38.74	39.98	1.29	1.53	1.64	1.38	1.65	1.79
535	54.41	55.34	56.10	1.01	1.22	1.33	1.23	1.50	1.66
600	69.14	69.32	70.06	1.06	1.35	1.52	1.57	2.00	2.36
700	80.47	78.80	79.51	0.67	0.91	1.03	2.08	2.53	2.77
800	76.25	72.49	76.77	0.45	0.64	0.70	2.37	3.03	3.67
900	69.48	70.42	69.84	0.41	0.57	0.62	1.56	1.75	1.87
1000	70.40	70.74	69.76	0.43	0.59	0.64	0.75	1.00	1.20
1100	69.89	67.95	70.71	0.44	0.65	0.73	0.60	0.90	1.12
1200	71.07	67.59	70.93	0.43	0.72	0.85	0.53	0.88	1.10
1300	66.30	70.29	67.77	0.44	0.79	0.96	0.50	0.89	1.10
1400	69.81	72.73	73.07	0.45	0.83	1.03	0.48	0.89	1.09
1500	77.75	81.68	81.25	0.46	0.85	1.05	0.46	0.88	1.07
1600	94.69	88.16	83.38	0.46	0.84	1.03	0.44	0.88	1.06
1700	94.52	93.19	86.49	0.48	0.84	1.02	0.41	0.86	1.05
1800	79.19	77.12	79.59	0.47	0.81	0.98	0.38	0.84	1.05
1900	82.24	83.53	81.76	0.46	0.79	0.94	0.35	0.81	1.04
2000	62.88	65.14	64.28	0.45	0.76	0.92	0.34	0.79	1.05
2100	66.61	71.41	68.18	0.43	0.74	0.89	0.30	0.75	1.03
2200	75.41	62.88	69.55	0.41	0.74	0.88	0.28	0.72	1.02

REV. X1

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100105

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# Surface Mount Band Pass Filter

# BPF-A410+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
365	15.51	15.28	15.04
366	15.22	15.00	14.79
368	14.69	14.52	14.32
370	14.24	14.08	13.92
372	13.84	13.71	13.55
374	13.49	13.37	13.23
375	13.33	13.22	13.09
376	13.17	13.08	12.95
378	12.90	12.81	12.70
380	12.65	12.58	12.49
382	12.44	12.39	12.31
384	12.26	12.22	12.16
385	12.18	12.14	12.08
386	12.09	12.06	12.02
388	11.95	11.92	11.90
390	11.82	11.82	11.79
392	11.73	11.72	11.70
394	11.63	11.62	11.60
395	11.59	11.59	11.57
396	11.56	11.55	11.53
398	11.45	11.46	11.45
400	11.38	11.38	11.36
402	11.31	11.30	11.28
404	11.24	11.24	11.21
405	11.20	11.20	11.16
406	11.18	11.17	11.13
408	11.11	11.09	11.05
410	11.05	11.04	11.00
412	11.01	10.99	10.95
414	10.97	10.95	10.92
415	10.95	10.94	10.90
416	10.93	10.92	10.89
418	10.93	10.92	10.89
420	10.94	10.94	10.93
422	10.96	10.97	10.97
424	11.00	11.02	11.03
425	11.04	11.06	11.08
426	11.06	11.11	11.12
428	11.17	11.21	11.24
430	11.26	11.33	11.37
432	11.39	11.46	11.51
434	11.53	11.61	11.67
435	11.59	11.68	11.76
436	11.67	11.77	11.85
438	11.83	11.93	12.00
440	11.99	12.10	12.19
442	12.15	12.26	12.33
444	12.32	12.41	12.49
445	12.39	12.49	12.56
446	12.48	12.57	12.64
448	12.63	12.71	12.77
450	12.79	12.87	12.93
454	13.15	13.23	13.29
455	13.25	13.34	13.40

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