

# Surface Mount Band Pass Filter

# BPF-A490+

## 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	90.54	103.84	101.96	0.01	0.00	0.00	0.07	0.11	0.13
10	96.58	90.90	93.43	0.01	0.00	0.00	0.13	0.18	0.20
50	64.71	64.07	63.14	0.01	0.02	0.02	0.29	0.34	0.35
100	55.15	54.89	55.14	0.01	0.03	0.05	0.30	0.40	0.46
150	56.33	56.16	56.32	0.04	0.07	0.10	0.27	0.38	0.42
200	65.71	66.02	65.44	0.10	0.14	0.17	0.30	0.43	0.44
250	50.85	50.51	50.36	0.21	0.26	0.30	0.40	0.57	0.57
280	30.78	30.52	30.43	0.36	0.43	0.49	0.54	0.77	0.77
305	18.05	17.81	17.65	0.71	0.83	0.93	0.87	1.24	1.27
325	8.94	8.80	8.58	1.89	2.17	2.43	2.09	2.75	2.94
335	5.27	5.34	5.19	3.60	3.98	4.45	3.87	4.68	5.07
350	2.27	2.59	2.57	8.29	8.50	9.30	8.60	8.94	9.53
400	1.06	1.40	1.47	13.06	12.37	12.22	12.31	11.62	11.41
450	0.91	1.20	1.22	14.14	14.58	14.67	13.87	14.44	14.59
490	0.71	1.06	1.07	32.67	26.13	23.18	26.45	25.57	24.44
500	0.74	1.11	1.13	21.40	19.61	18.22	20.84	19.60	18.77
510	0.81	1.21	1.22	16.97	16.23	15.34	16.98	16.30	15.76
520	0.89	1.30	1.30	14.44	14.24	13.57	14.58	14.32	13.99
530	1.00	1.42	1.41	12.92	13.06	12.52	13.08	13.15	12.97
550	1.17	1.61	1.56	11.67	12.44	11.97	11.84	12.50	12.53
560	1.18	1.65	1.58	11.84	12.91	12.43	11.99	12.98	13.11
570	1.20	1.71	1.60	12.59	13.94	13.43	12.77	14.17	14.44
580	1.21	1.78	1.65	14.02	15.47	14.96	14.41	16.50	16.89
590	1.21	1.90	1.72	16.09	16.78	16.30	17.69	20.97	21.12
600	1.32	2.24	1.97	16.73	15.38	15.09	21.94	20.06	19.85
610	1.78	3.10	2.63	12.49	11.20	11.33	14.29	11.71	12.31
620	3.02	4.95	4.14	7.55	7.19	7.46	7.59	6.39	6.96
630	5.64	8.17	7.02	4.25	4.57	4.71	3.79	3.48	3.78
650	14.61	17.48	16.27	1.78	2.38	2.40	1.20	1.46	1.54
660	19.36	22.26	21.16	1.35	1.90	1.91	0.86	1.14	1.21
670	24.36	27.24	26.20	1.12	1.61	1.64	0.69	0.96	1.05
680	29.62	32.55	31.53	0.95	1.40	1.42	0.59	0.87	0.95
690	34.95	37.95	36.98	0.84	1.24	1.28	0.51	0.77	0.87
700	40.26	43.42	42.48	0.75	1.11	1.15	0.46	0.71	0.81
710	46.04	49.58	48.46	0.67	1.00	1.06	0.43	0.67	0.76
720	53.21	57.08	55.82	0.61	0.92	0.98	0.39	0.63	0.72
730	62.08	69.45	66.09	0.57	0.87	0.91	0.36	0.59	0.69
750	69.04	67.96	69.11	0.54	0.81	0.86	0.33	0.57	0.67
760	66.52	67.28	67.18	0.51	0.76	0.81	0.31	0.54	0.65
770	66.98	67.20	68.05	0.49	0.73	0.78	0.29	0.52	0.62
780	68.95	71.71	69.21	0.48	0.71	0.76	0.29	0.52	0.61
790	71.13	72.38	71.64	0.46	0.68	0.72	0.27	0.48	0.59
800	76.95	77.39	75.04	0.46	0.67	0.72	0.27	0.48	0.58
900	76.48	75.28	73.49	0.42	0.61	0.62	0.20	0.40	0.46
1000	90.41	86.23	85.18	0.44	0.67	0.65	0.17	0.35	0.40
1100	71.18	72.41	72.38	0.51	0.86	0.80	0.16	0.32	0.36
1200	63.02	69.91	63.62	0.64	1.19	1.12	0.17	0.32	0.34
1300	64.57	64.94	64.84	0.73	1.48	1.45	0.15	0.30	0.33
1400	63.02	63.49	63.95	0.81	1.62	1.61	0.15	0.30	0.34
1500	64.24	66.73	66.98	0.77	1.53	1.54	0.14	0.29	0.35
1600	67.32	72.24	71.15	0.70	1.39	1.42	0.13	0.32	0.37
1700	81.95	75.21	83.77	0.64	1.27	1.29	0.09	0.30	0.35
1800	73.59	70.82	71.62	0.59	1.17	1.21	0.07	0.28	0.39
1900	65.35	59.67	57.04	0.55	1.12	1.14	0.08	0.36	0.42
2000	74.20	67.13	68.86	0.54	1.08	1.09	0.07	0.34	0.47

REV. X1

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# BPF-A490+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
400	5.37	5.34	5.29
405	5.22	5.18	5.13
410	5.07	5.03	4.98
415	4.94	4.92	4.87
420	4.85	4.83	4.78
425	4.75	4.75	4.71
430	4.69	4.68	4.64
435	4.61	4.62	4.59
440	4.56	4.57	4.54
445	4.52	4.55	4.52
450	4.51	4.53	4.52
455	4.51	4.56	4.53
460	4.52	4.57	4.54
465	4.55	4.59	4.58
470	4.56	4.61	4.58
475	4.57	4.62	4.59
480	4.59	4.63	4.60
485	4.59	4.63	4.61
490	4.61	4.65	4.61
495	4.62	4.66	4.62
500	4.65	4.67	4.63
505	4.66	4.69	4.64
510	4.69	4.72	4.65
515	4.71	4.75	4.69
520	4.74	4.77	4.71
525	4.76	4.80	4.75
530	4.78	4.83	4.78
535	4.81	4.88	4.84
540	4.86	4.94	4.88
545	4.93	5.03	4.98
550	5.02	5.15	5.08
555	5.14	5.29	5.23
560	5.31	5.46	5.40
565	5.48	5.67	5.60
570	5.66	5.87	5.79
575	5.89	6.12	6.05
580	6.16	6.42	6.33
585	6.48	6.78	6.67
590	6.86	7.20	7.07
595	7.35	7.72	7.56
600	7.89	8.25	8.09

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