

# Surface Mount Band Pass Filter

# SXBP-425+

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURN LOSS (dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
0.5	93.45	97.93	104.03	0.13	0.17	0.21	0.12	0.16	0.20
10	86.33	85.92	86.19	0.15	0.20	0.25	0.15	0.20	0.25
100	77.03	77.73	76.32	0.20	0.24	0.28	0.20	0.25	0.29
200	84.36	80.65	82.54	0.09	0.13	0.16	0.09	0.14	0.17
300	76.16	78.77	77.15	0.04	0.11	0.14	0.05	0.11	0.14
360	47.13	46.46	45.97	0.15	0.26	0.32	0.14	0.25	0.32
385	27.85	26.81	25.79	0.50	0.76	0.95	0.48	0.73	0.90
395	16.73	15.54	14.39	1.35	2.00	2.61	1.28	1.88	2.44
402	7.97	7.31	6.77	4.59	6.73	8.98	4.18	6.04	7.91
406	4.43	4.54	4.57	11.66	16.36	21.72	9.93	13.09	15.97
410	3.02	3.48	3.74	41.94	27.71	24.63	19.33	21.69	23.82
425	2.27	2.84	3.22	23.60	28.61	35.27	23.62	23.98	23.45
440	2.79	3.62	4.29	15.37	15.59	15.42	15.65	17.18	18.79
445	3.50	4.97	6.39	14.76	11.21	8.69	20.52	13.62	10.09
450	6.63	9.04	11.03	5.51	4.43	3.71	6.15	4.89	4.08
460	17.46	19.53	21.22	1.26	1.35	1.35	1.34	1.44	1.44
470	26.34	27.93	29.22	0.63	0.76	0.80	0.66	0.79	0.85
510	47.72	48.53	49.34	0.17	0.28	0.33	0.18	0.29	0.34
600	72.36	72.57	71.00	0.06	0.15	0.20	0.05	0.15	0.21
700	82.90	87.97	87.49	0.02	0.13	0.17	0.00	0.10	0.17
800	90.82	86.97	89.56	0.01	0.13	0.18	0.01	0.12	0.18
900	88.03	100.79	96.97	0.01	0.13	0.17	0.00	0.12	0.20
1000	85.70	87.77	89.61	0.01	0.15	0.19	0.00	0.13	0.21
1200	82.64	83.21	79.38	0.02	0.16	0.23	0.00	0.14	0.23
1300	82.31	77.72	80.48	0.02	0.17	0.26	0.01	0.18	0.26
1400	82.88	91.91	90.20	0.04	0.21	0.28	0.01	0.18	0.28
1500	82.34	79.85	85.38	0.03	0.20	0.28	0.02	0.18	0.27
1600	74.24	79.28	74.46	0.04	0.23	0.31	0.02	0.19	0.29
1700	64.01	66.06	69.10	0.06	0.24	0.33	0.05	0.23	0.35
1800	69.93	70.15	69.98	0.06	0.25	0.33	0.05	0.24	0.36
2000	63.72	63.68	62.34	0.05	0.25	0.35	0.06	0.25	0.37
2200	57.38	55.28	56.17	0.09	0.29	0.41	0.08	0.30	0.41
2300	50.57	53.84	52.98	0.12	0.32	0.43	0.09	0.27	0.40
2400	56.61	56.63	56.61	0.11	0.31	0.45	0.10	0.30	0.43
2500	60.33	58.64	57.44	0.08	0.30	0.44	0.10	0.32	0.48
2600	48.49	46.47	47.63	0.12	0.35	0.49	0.11	0.35	0.47
2700	54.95	51.82	48.82	0.10	0.35	0.50	0.09	0.34	0.51
2800	49.39	45.86	42.65	0.17	0.43	0.58	0.12	0.37	0.53
3000	44.67	47.78	48.61	0.10	0.36	0.53	0.17	0.36	0.52
3200	47.56	40.17	40.29	0.10	0.43	0.58	0.24	0.55	0.69
3300	39.21	40.20	41.87	0.13	0.46	0.61	0.14	0.43	0.62
3400	36.36	37.92	36.23	0.18	0.54	0.73	0.14	0.45	0.67
3500	33.52	34.88	37.09	0.19	0.57	0.81	0.27	0.58	0.78
3600	41.17	40.29	37.48	0.15	0.50	0.70	0.24	0.56	0.82
3700	36.38	34.63	34.11	0.13	0.53	0.70	0.25	0.62	0.86
3800	37.25	34.10	40.13	0.19	0.55	0.83	0.27	0.71	0.85
4000	30.73	33.22	31.70	0.40	0.79	1.20	0.37	0.71	1.00
4200	27.69	27.45	30.08	0.44	0.91	1.14	0.54	0.97	1.28
4300	29.35	30.08	30.78	0.40	0.79	1.08	0.72	1.25	1.26
4400	26.08	27.39	26.70	0.90	1.13	1.65	0.41	0.90	1.16
4500	24.74	24.79	23.50	0.98	1.57	1.59	1.20	1.44	1.69
4600	24.48	25.62	23.52	0.94	1.60	1.79	0.96	1.41	1.86
4800	21.81	24.54	23.58	1.68	3.00	3.66	1.91	2.40	3.14
5000	18.50	20.60	18.76	1.93	2.26	2.99	1.99	1.97	2.28

REV. X2

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# SXBP-425+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
330	2.16	2.21	0.86
340	1.57	2.14	1.66
350	1.62	1.16	1.14
360	1.58	1.66	1.66
370	2.91	3.29	3.61
380	4.80	5.23	5.71
390	8.76	9.99	11.12
400	21.61	24.00	25.84
410	28.56	26.86	25.71
411	27.41	25.87	24.84
412	26.37	25.05	24.20
413	25.39	24.32	23.56
414	24.53	23.65	23.08
415	23.86	23.11	22.65
416	23.25	22.68	22.23
417	22.77	22.26	21.91
418	22.31	21.87	21.62
419	21.97	21.58	21.36
420	21.66	21.39	21.20
421	21.42	21.14	21.07
422	21.14	20.95	20.93
423	20.98	20.86	20.85
424	20.78	20.74	20.81
425	20.69	20.67	20.74
426	20.59	20.65	20.74
427	20.58	20.67	20.75
428	20.57	20.66	20.78
429	20.59	20.69	20.78
430	20.61	20.71	20.90
431	20.64	20.77	20.98
432	20.67	20.84	21.07
433	20.81	20.99	21.30
434	20.90	21.14	21.59
435	20.98	21.36	21.86
436	21.21	21.67	22.36
437	21.42	22.09	22.98
438	21.77	22.59	23.66
439	22.20	23.28	24.43
440	22.86	24.09	25.40
450	26.66	23.21	20.23
460	10.73	9.47	8.51
470	5.48	5.06	4.87
480	3.33	3.23	3.00
490	2.22	1.84	2.10
500	1.76	1.81	2.02
510	1.42	1.11	1.06
520	1.12	1.24	1.26
530	1.36	0.92	1.19
540	1.00	1.06	1.02
550	0.27	0.63	0.58
560	0.83	0.97	0.62
570	1.30	1.29	0.73
580	0.71	0.18	0.23
590	0.31	0.26	0.58
600	0.08	1.02	0.91

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