

# Surface Mount Band Pass Filter

# SXBP-615+

## 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
1	98.70	95.30	102.34	0.01	0.01	0.00	0.00	0.01	0.00
10	100.52	94.94	98.50	0.01	0.00	0.01	0.00	0.01	0.00
50	99.93	93.15	89.63	0.00	0.00	0.02	0.01	0.00	0.01
100	78.94	80.83	81.04	0.01	0.02	0.04	0.01	0.02	0.03
200	61.41	61.08	61.16	0.00	0.05	0.06	0.02	0.06	0.09
250	52.85	53.05	52.98	0.01	0.06	0.09	0.03	0.08	0.11
300	44.58	44.62	44.60	0.03	0.10	0.13	0.07	0.13	0.17
380	29.81	29.71	29.54	0.10	0.20	0.26	0.22	0.32	0.38
400	25.24	25.12	24.93	0.15	0.26	0.33	0.29	0.43	0.51
430	17.43	17.26	17.02	0.35	0.50	0.60	0.66	0.87	1.03
450	11.03	10.88	10.65	0.87	1.09	1.26	1.59	1.99	2.32
470	4.84	4.94	4.94	3.19	3.54	3.81	6.03	7.12	8.12
500	2.67	2.95	3.14	5.52	5.73	5.86	6.69	6.86	6.93
565	1.14	1.44	1.63	16.60	16.64	16.54	14.06	14.19	14.26
580	1.05	1.35	1.55	19.59	19.43	19.23	18.44	18.92	19.18
600	1.12	1.42	1.62	16.56	17.84	18.92	18.12	20.53	22.93
615	1.22	1.54	1.75	16.23	18.15	20.02	17.47	20.02	22.67
640	1.50	1.91	2.22	16.92	18.12	18.58	16.57	17.38	17.69
670	2.20	2.86	3.38	22.70	22.88	23.50	18.40	17.69	17.04
690	8.70	10.66	12.39	4.14	4.16	4.01	4.33	4.31	4.16
720	36.26	38.40	40.37	1.02	1.26	1.36	1.05	1.29	1.41
740	55.22	55.82	55.95	0.68	0.89	0.98	0.69	0.89	0.99
800	59.43	60.09	60.50	0.28	0.45	0.53	0.30	0.44	0.54
900	52.31	53.14	53.61	0.11	0.26	0.32	0.16	0.30	0.38
1000	55.42	56.06	56.70	0.07	0.22	0.28	0.14	0.28	0.35
1200	62.14	61.98	63.54	0.03	0.19	0.25	0.16	0.30	0.38
1300	64.46	65.85	66.08	0.02	0.18	0.26	0.17	0.33	0.41
1400	66.23	67.28	70.88	0.03	0.21	0.29	0.19	0.34	0.43
1500	73.09	71.69	69.84	0.02	0.19	0.27	0.18	0.36	0.45
1600	68.12	72.34	70.08	0.04	0.22	0.31	0.18	0.37	0.46
1700	65.32	66.94	65.36	0.03	0.21	0.31	0.19	0.39	0.49
1800	55.08	54.56	54.55	0.05	0.23	0.33	0.22	0.44	0.55
2000	65.53	68.23	66.45	0.06	0.25	0.35	0.12	0.37	0.49
2200	52.67	57.58	62.83	0.08	0.28	0.40	0.09	0.35	0.49
2300	65.29	61.59	63.35	0.08	0.28	0.40	0.05	0.32	0.47
2400	66.85	60.36	59.52	0.08	0.28	0.42	0.01	0.29	0.43
2500	58.49	55.27	51.96	0.07	0.29	0.44	0.03	0.29	0.45
2600	54.50	54.02	53.26	0.12	0.31	0.45	0.09	0.23	0.39
2800	46.52	48.55	47.37	0.11	0.33	0.49	0.13	0.21	0.37
3000	45.49	48.41	46.39	0.10	0.33	0.48	0.29	0.09	0.24
3200	40.98	43.68	38.80	0.16	0.39	0.59	0.23	0.04	0.22
3300	44.58	42.97	44.47	0.12	0.38	0.54	0.28	0.03	0.20
3400	37.54	39.69	40.75	0.14	0.43	0.58	0.37	0.01	0.17
3500	36.89	39.02	36.70	0.18	0.45	0.66	0.32	0.05	0.17
3600	34.91	39.20	38.37	0.11	0.44	0.57	0.27	0.03	0.20
3800	35.82	35.03	35.38	0.13	0.53	0.65	0.32	0.01	0.16
4000	29.17	32.78	35.05	0.28	0.61	0.80	0.01	0.11	0.32
4200	29.49	32.49	28.26	0.42	0.72	1.08	0.25	0.19	0.58
4300	29.61	29.39	29.42	0.35	0.83	1.06	0.24	0.25	0.46
4400	25.43	27.72	30.47	0.57	1.04	1.39	0.54	0.45	0.80
4500	25.50	25.67	24.51	0.60	1.24	1.43	0.82	0.67	1.10
4600	27.31	27.39	29.77	0.79	1.17	1.44	1.27	1.07	1.12
4800	21.61	22.92	21.67	1.05	1.55	1.84	1.06	1.22	1.49
5000	20.88	21.62	26.53	1.51	1.89	1.79	0.49	1.19	1.27

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Page 1 of 2



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# Surface Mount Band Pass Filter

# SXBP-615+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
210	0.82	0.29	0.38
220	0.75	0.27	0.39
230	0.43	0.33	0.58
240	0.60	0.50	0.48
250	0.56	0.36	0.23
260	0.45	0.45	0.50
270	0.70	0.59	0.72
280	0.61	0.67	0.72
290	0.73	0.64	0.64
300	0.55	0.55	0.58
310	0.57	0.61	0.69
320	0.73	0.74	0.80
330	0.85	0.84	0.79
340	0.88	0.92	0.95
350	0.90	0.90	0.95
360	0.93	0.94	0.97
370	0.98	0.95	0.99
380	1.11	1.15	1.18
390	1.33	1.37	1.41
400	1.57	1.58	1.66
410	1.71	1.76	1.84
420	1.95	2.02	2.12
430	2.43	2.54	2.66
440	3.25	3.38	3.53
450	4.37	4.54	4.72
460	5.85	6.01	6.16
470	7.38	7.40	7.44
480	8.02	7.88	7.76
490	7.35	7.15	6.99
500	6.14	6.02	5.93
510	5.31	5.27	5.26
520	4.89	4.91	4.92
530	4.77	4.79	4.83
540	4.86	4.88	4.92
550	5.07	5.08	5.11
560	5.22	5.22	5.24
570	5.29	5.29	5.30
580	5.31	5.32	5.36
590	5.33	5.37	5.41
600	5.40	5.47	5.55
610	5.58	5.66	5.77
620	5.87	5.98	6.09
630	6.27	6.39	6.51
640	6.78	6.90	7.05
650	7.49	7.65	7.83
660	8.79	9.06	9.35
670	10.77	11.25	11.77
690	14.43	13.43	12.50
720	2.49	1.83	0.76

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Page 2 of 2



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