

Surface Mount Band Pass Filter

SXBP-640+

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	100.32	98.72	99.79	0.00	0.01	0.00	0.00	0.01	0.00
10	94.57	93.74	96.86	0.00	0.00	0.00	0.01	0.01	0.01
100	89.09	89.79	84.20	0.02	0.01	0.03	0.02	0.01	0.03
200	94.72	88.36	90.20	0.01	0.03	0.05	0.01	0.04	0.06
300	75.48	72.90	70.66	0.00	0.07	0.11	0.01	0.06	0.09
400	56.36	56.05	55.83	0.06	0.17	0.22	0.06	0.18	0.22
425	51.55	51.58	51.13	0.10	0.21	0.28	0.10	0.22	0.29
500	33.86	33.29	32.80	0.35	0.57	0.70	0.38	0.62	0.77
550	15.99	15.36	14.78	1.17	1.73	2.09	1.60	2.34	2.85
570	7.50	7.38	7.19	3.18	4.24	4.92	4.74	6.28	7.33
580	4.46	4.73	4.81	5.97	7.20	7.93	8.71	10.38	11.40
600	2.26	2.81	3.08	13.34	14.16	14.56	14.09	15.15	16.10
640	1.80	2.49	2.90	34.51	21.15	17.37	26.29	19.65	16.67
660	2.01	2.77	3.19	17.97	16.10	15.46	16.99	15.81	15.51
680	2.35	3.29	3.89	20.78	27.41	56.83	19.15	19.10	18.21
700	4.33	6.54	8.27	9.46	7.92	6.67	11.79	12.46	12.07
710	8.47	11.73	14.10	4.14	3.75	3.39	6.70	6.68	6.14
730	21.05	24.49	26.84	1.35	1.56	1.58	2.34	2.55	2.52
750	33.57	36.65	38.73	0.76	0.98	1.04	1.18	1.43	1.47
785	53.44	56.00	58.43	0.40	0.58	0.66	0.55	0.76	0.83
1000	82.94	82.42	88.13	0.05	0.19	0.27	0.07	0.23	0.29
1100	83.94	83.55	99.25	0.04	0.18	0.26	0.04	0.20	0.27
1200	93.78	83.21	98.25	0.05	0.18	0.28	0.02	0.20	0.26
1300	81.11	97.98	80.45	0.03	0.18	0.27	0.02	0.20	0.27
1400	83.80	76.72	87.38	0.05	0.21	0.30	0.04	0.21	0.30
1500	81.04	87.92	82.00	0.03	0.19	0.28	0.01	0.20	0.28
1600	85.14	79.42	91.17	0.05	0.22	0.32	0.03	0.22	0.31
1700	59.57	69.04	64.04	0.06	0.23	0.33	0.04	0.24	0.33
1800	68.29	71.67	71.41	0.06	0.24	0.35	0.05	0.24	0.34
1900	59.09	69.27	58.10	0.07	0.25	0.37	0.06	0.26	0.36
2000	62.81	64.77	62.27	0.07	0.26	0.37	0.05	0.26	0.36
2100	72.44	64.66	77.24	0.08	0.28	0.39	0.06	0.29	0.38
2200	60.45	65.69	54.23	0.09	0.28	0.42	0.06	0.28	0.40
2300	52.04	61.63	51.75	0.11	0.29	0.43	0.10	0.29	0.42
2400	58.68	59.05	58.68	0.09	0.30	0.42	0.04	0.26	0.39
2500	55.43	57.74	59.17	0.09	0.31	0.45	0.10	0.33	0.46
2600	48.23	50.47	48.33	0.10	0.32	0.43	0.05	0.29	0.40
2700	48.60	53.22	50.35	0.09	0.33	0.46	0.10	0.32	0.45
2800	58.26	50.36	58.01	0.12	0.34	0.53	0.09	0.35	0.46
2900	45.26	49.79	49.98	0.10	0.34	0.51	0.08	0.34	0.50
3000	47.86	43.74	43.62	0.10	0.35	0.53	0.09	0.38	0.50
3200	42.77	43.74	46.96	0.12	0.39	0.53	0.15	0.43	0.58
3300	42.08	42.88	41.79	0.10	0.39	0.55	0.10	0.40	0.57
3400	40.39	40.44	41.39	0.13	0.41	0.57	0.09	0.46	0.71
3500	36.25	37.97	38.35	0.19	0.47	0.73	0.16	0.48	0.67
3600	36.17	36.61	35.66	0.11	0.44	0.66	0.19	0.57	0.73
3700	33.91	33.87	34.00	0.20	0.52	0.67	0.21	0.53	0.74
3800	32.50	34.13	34.11	0.18	0.51	0.78	0.20	0.61	0.91
3900	37.39	33.82	33.89	0.22	0.63	0.81	0.25	0.69	0.84
4000	30.86	33.15	31.17	0.20	0.62	0.99	0.20	0.69	1.00
4200	26.78	30.22	28.56	0.45	0.70	1.09	0.51	0.96	1.23
4300	27.25	27.87	26.26	0.29	0.91	1.33	0.63	0.97	1.27
4400	24.97	25.27	24.98	0.84	1.11	1.50	0.58	1.17	1.47
4500	25.62	26.04	28.98	0.67	1.18	1.40	0.77	1.24	1.65

REV. X2
SXBP-640+
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Page 1 of 2



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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
600.0	9.88	9.68	9.59
602.5	9.64	9.50	9.45
605.0	9.42	9.32	9.27
607.5	9.26	9.17	9.16
610.0	9.10	9.05	9.06
612.5	8.99	8.98	9.00
615.0	8.91	8.89	8.93
617.5	8.84	8.84	8.88
620.0	8.77	8.80	8.83
622.5	8.72	8.73	8.78
625.0	8.66	8.69	8.72
627.5	8.63	8.66	8.68
630.0	8.57	8.62	8.64
632.5	8.57	8.60	8.62
635.0	8.55	8.61	8.61
637.5	8.54	8.59	8.62
640.0	8.55	8.61	8.63
642.5	8.59	8.61	8.67
645.0	8.59	8.64	8.73
647.5	8.63	8.68	8.80
650.0	8.68	8.77	8.89
652.5	8.73	8.84	9.00
655.0	8.79	8.96	9.12
657.5	8.87	9.06	9.25
660.0	8.95	9.19	9.41
662.5	9.06	9.33	9.59
665.0	9.18	9.48	9.81
667.5	9.32	9.67	10.04
670.0	9.50	9.92	10.31
672.5	9.74	10.19	10.63
675.0	10.00	10.50	10.98
677.5	10.29	10.85	11.35
680.0	10.65	11.26	11.80
682.5	11.03	11.67	12.26
685.0	11.46	12.16	12.79
690.0	12.48	13.25	13.88
695.0	13.67	14.30	14.62
700.0	14.62	14.67	14.31
705.0	14.71	13.85	12.84
710.0	13.62	12.06	10.80
715.0	11.77	10.08	8.91
720.0	10.01	8.48	7.49
725.0	8.45	7.21	6.38
730.0	7.20	6.12	5.47
732.5	6.57	5.61	5.03
735.0	6.01	5.20	4.61
740.0	5.04	4.31	3.87
745.0	4.19	3.68	3.23
750.0	3.52	3.06	2.66
755.0	2.91	2.54	2.25
760.0	2.58	2.05	1.98
765.0	2.32	2.03	1.80
770.0	2.22	2.02	1.56
775.0	2.01	1.89	1.23
780.0	1.94	1.67	1.11

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Page 2 of 2



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