

# Surface Mount Low Pass Filter

# SXLP-420+

## 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	0.01	0.02	0.02	60.15	56.72	54.52	67.34	61.10	57.58
5	0.02	0.02	0.03	57.59	54.62	51.59	54.91	53.21	50.85
20	0.04	0.05	0.06	45.85	45.59	43.86	43.63	45.78	47.17
50	0.07	0.08	0.10	38.00	36.64	35.17	36.44	36.97	37.09
70	0.08	0.10	0.12	34.18	32.61	31.35	34.10	32.86	31.77
90	0.09	0.12	0.14	30.35	29.22	28.32	30.90	29.36	28.15
100	0.10	0.13	0.15	28.60	27.75	27.00	29.16	27.87	26.77
120	0.12	0.15	0.18	25.60	25.05	24.59	25.94	25.13	24.43
130	0.13	0.17	0.19	24.33	23.84	23.44	24.58	23.91	23.35
140	0.14	0.18	0.21	23.23	22.73	22.34	23.41	22.81	22.31
150	0.15	0.19	0.22	22.23	21.70	21.30	22.37	21.79	21.30
160	0.16	0.21	0.24	21.34	20.79	20.37	21.41	20.83	20.36
170	0.17	0.22	0.25	20.47	19.92	19.51	20.53	19.94	19.48
180	0.19	0.24	0.28	19.64	19.11	18.72	19.70	19.14	18.71
200	0.22	0.28	0.32	18.14	17.75	17.46	18.15	17.74	17.41
300	0.34	0.40	0.44	15.30	15.54	15.74	15.31	15.59	15.82
400	0.29	0.39	0.45	30.78	27.57	25.73	31.04	27.75	25.85
420	0.35	0.47	0.54	20.16	19.14	18.48	20.10	19.11	18.45
500	0.72	0.84	0.91	12.22	12.37	12.57	12.26	12.49	12.74
530	0.61	0.76	0.86	20.80	21.61	22.31	22.94	25.84	29.98
550	0.97	1.24	1.45	13.39	12.30	11.46	13.79	12.72	11.85
570	2.73	3.17	3.50	5.22	4.93	4.68	5.23	4.97	4.74
600	7.98	8.50	8.88	1.44	1.46	1.46	1.40	1.46	1.48
640	15.68	16.10	16.42	0.49	0.55	0.59	0.43	0.54	0.60
750	32.58	32.85	33.09	0.18	0.25	0.28	0.12	0.23	0.30
800	39.00	39.24	39.45	0.16	0.22	0.26	0.09	0.21	0.28
900	50.85	50.99	51.23	0.12	0.18	0.23	0.05	0.17	0.25
920	53.02	53.24	53.47	0.11	0.18	0.22	0.05	0.17	0.25
1000	62.22	62.41	62.81	0.10	0.17	0.22	0.03	0.17	0.25
1200	93.27	90.44	86.90	0.10	0.18	0.23	0.01	0.16	0.25
1400	81.59	80.39	80.69	0.11	0.20	0.25	0.02	0.18	0.28
1600	75.76	77.88	76.23	0.14	0.23	0.28	0.01	0.20	0.30
1800	74.80	75.77	76.24	0.16	0.25	0.31	0.03	0.21	0.33
2000	69.78	78.45	74.56	0.19	0.28	0.34	0.04	0.23	0.36
2200	68.43	72.98	69.56	0.21	0.31	0.37	0.05	0.26	0.39
2400	58.97	58.18	59.09	0.23	0.33	0.39	0.05	0.28	0.42
2600	60.39	66.69	66.01	0.23	0.35	0.41	0.07	0.30	0.45
2800	55.54	58.16	50.66	0.27	0.37	0.46	0.07	0.34	0.51
3000	43.13	43.12	43.83	0.32	0.40	0.50	0.10	0.40	0.54
3200	44.42	41.69	44.34	0.30	0.42	0.52	0.11	0.43	0.63
3400	44.03	39.67	38.12	0.31	0.47	0.60	0.12	0.48	0.84
3600	35.97	41.26	35.21	0.37	0.64	0.81	0.14	0.51	0.82
3800	34.17	32.06	36.63	0.41	0.88	0.95	0.30	0.75	0.86
4000	31.67	33.30	34.08	0.64	1.15	1.71	0.38	0.76	1.05
4200	25.75	26.79	27.88	2.48	8.16	5.18	0.33	1.05	1.51
4400	24.75	29.61	27.80	1.78	1.73	1.82	1.26	1.59	2.23
4600	22.58	23.28	20.51	1.17	1.47	1.97	1.17	2.04	2.82
4800	25.07	22.88	20.05	1.47	2.08	2.03	2.90	6.19	9.23
5000	23.43	20.52	21.88	1.38	2.04	2.28	3.60	3.32	2.87
5200	26.05	19.59	24.13	1.60	2.00	2.25	1.88	2.66	2.45
5400	19.76	18.51	20.87	1.66	2.21	2.67	2.44	2.36	2.86
5600	15.05	20.13	17.43	3.17	2.28	2.86	1.87	2.15	3.10
5800	17.03	20.10	15.35	2.42	3.37	4.19	3.07	2.94	3.52
6000	16.65	18.70	17.17	2.98	2.96	3.03	2.32	2.64	3.40

REV. X2  
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101124  
Page 1 of 2



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# Surface Mount Low Pass Filter

# SXLP-420+

## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
1	1.31	1.36	1.33
5	1.48	1.52	1.50
10	1.56	1.58	1.57
20	1.74	1.74	1.75
30	1.75	1.75	1.75
40	1.74	1.74	1.75
50	1.75	1.75	1.75
60	1.75	1.75	1.75
70	1.75	1.75	1.75
80	1.75	1.75	1.76
90	1.76	1.75	1.76
100	1.76	1.76	1.76
110	1.77	1.76	1.76
120	1.77	1.77	1.77
130	1.78	1.77	1.78
140	1.78	1.78	1.78
150	1.79	1.78	1.79
160	1.79	1.79	1.79
170	1.80	1.80	1.80
180	1.81	1.80	1.80
190	1.82	1.81	1.81
200	1.82	1.82	1.82
210	1.83	1.82	1.82
220	1.84	1.83	1.83
230	1.85	1.84	1.84
240	1.86	1.85	1.85
250	1.87	1.86	1.86
260	1.88	1.88	1.88
270	1.89	1.89	1.89
280	1.91	1.91	1.91
290	1.93	1.93	1.93
300	1.95	1.95	1.95
310	1.97	1.97	1.98
320	2.00	2.01	2.01
330	2.04	2.04	2.05
340	2.07	2.07	2.08
350	2.11	2.11	2.12
355	2.13	2.13	2.14
360	2.15	2.16	2.16
365	2.17	2.18	2.19
370	2.20	2.20	2.21
380	2.25	2.25	2.25
390	2.29	2.29	2.30
400	2.33	2.33	2.34
405	2.35	2.35	2.36
410	2.37	2.37	2.38
415	2.40	2.40	2.40
420	2.42	2.42	2.42
500	2.89	2.92	2.95
600	3.43	3.31	3.23
700	1.18	1.17	1.16
800	0.80	0.78	0.77
900	0.65	0.61	0.60
1000	0.14	0.43	0.19
1100	1.55	1.30	1.16

REV. X2  
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Page 2 of 2



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