

Surface Mount Low Pass Filter

SXLP-30+

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	0.03	0.04	0.05	48.40	47.70	46.20	51.90	49.71	47.61
3	0.04	0.05	0.06	38.51	38.11	37.57	37.62	37.08	36.45
8	0.07	0.09	0.10	39.11	40.01	41.16	34.30	34.44	34.55
13	0.15	0.16	0.18	22.07	21.92	21.86	21.98	21.90	21.90
26	0.32	0.33	0.36	22.37	22.24	22.01	21.84	21.96	21.89
30	0.50	0.52	0.57	17.46	17.39	17.21	17.31	17.34	17.23
33	0.72	0.76	0.83	19.19	18.54	18.08	19.38	18.67	18.23
34	1.19	1.27	1.39	10.89	10.48	10.22	10.96	10.55	10.31
35	2.25	2.40	2.58	6.21	5.96	5.80	6.25	6.00	5.86
36	4.00	4.22	4.44	3.49	3.35	3.28	3.52	3.38	3.32
38	8.77	9.06	9.32	1.21	1.18	1.18	1.23	1.21	1.22
42	18.42	18.70	18.95	0.34	0.35	0.38	0.36	0.38	0.41
47	28.24	28.50	28.71	0.20	0.21	0.23	0.22	0.24	0.26
61	48.38	48.55	48.76	0.13	0.14	0.15	0.15	0.16	0.17
100	78.06	77.08	77.55	0.10	0.11	0.12	0.11	0.14	0.17
400	80.49	83.43	82.91	0.09	0.13	0.16	0.08	0.16	0.20
800	87.11	91.77	89.34	0.15	0.22	0.28	0.13	0.26	0.35
1200	79.77	71.94	74.62	0.26	0.35	0.44	0.22	0.40	0.53
1500	68.66	60.14	67.88	0.39	0.53	0.64	0.30	0.52	0.69
1600	63.72	61.20	63.74	0.46	0.62	0.77	0.34	0.57	0.75
1700	71.23	70.66	79.21	0.60	0.80	0.98	0.40	0.65	0.84
1800	58.76	73.61	62.28	0.84	1.10	1.33	0.49	0.74	0.95
2000	53.13	61.48	54.72	2.03	2.26	2.38	0.64	0.87	1.07
2200	50.16	52.95	58.23	1.93	1.87	1.91	0.66	0.95	1.22
2300	51.71	51.43	50.49	1.47	1.51	1.63	0.66	1.01	1.30
2400	45.36	48.92	45.37	1.23	1.36	1.53	0.72	1.09	1.43
2500	45.56	43.21	40.88	1.13	1.31	1.54	0.81	1.25	1.61
2600	43.84	43.12	44.27	1.07	1.36	1.54	0.90	1.34	1.76
2700	43.73	44.75	45.41	1.12	1.43	1.69	1.06	1.57	2.04
2800	54.09	38.79	53.00	1.29	1.65	2.01	1.30	1.88	2.45
3000	42.93	44.74	52.45	2.10	2.64	3.22	1.97	2.86	3.50
3200	40.18	49.50	44.20	3.92	4.70	5.11	3.39	4.34	5.35
3300	44.77	40.48	36.57	5.13	5.29	5.27	4.49	5.56	6.73
3400	36.52	31.41	33.91	5.31	5.08	4.75	5.69	6.98	7.61
3500	28.43	28.39	30.76	4.59	4.29	4.29	7.21	8.02	8.43
3600	26.54	27.32	29.81	3.93	3.94	3.88	8.50	8.88	8.97
3700	26.00	30.28	31.90	3.49	3.63	3.94	9.72	9.20	8.44
3800	27.69	32.52	33.57	3.50	3.90	4.16	9.49	8.61	8.08
4000	36.21	34.79	31.74	3.65	3.72	4.03	7.12	6.65	6.40
4200	23.17	29.89	24.90	3.41	3.46	3.48	5.67	6.12	6.52
4300	24.90	26.31	28.42	3.25	2.94	3.72	5.75	6.95	6.94
4400	21.38	26.88	27.40	3.03	2.94	3.12	6.94	6.96	7.26
4500	27.74	25.20	27.39	2.88	2.75	2.92	6.97	7.18	7.15
4600	24.35	26.23	25.75	2.54	3.04	2.84	7.54	7.87	7.20
4700	21.20	19.91	19.10	2.89	3.84	3.93	7.21	7.98	8.44
4800	18.99	21.76	17.76	3.43	3.63	4.13	7.84	7.87	8.91
5000	19.00	18.87	19.56	3.73	4.44	4.65	8.24	8.54	8.45
5200	16.62	19.15	21.41	5.58	4.44	4.93	9.86	10.34	9.09
5300	19.64	18.93	22.52	4.23	4.38	4.99	9.38	11.18	11.70
5400	18.52	22.29	21.23	5.47	4.50	5.69	10.80	10.68	11.98
5500	19.20	24.78	20.44	4.84	4.89	5.46	12.02	12.42	13.49
5600	20.55	22.28	23.11	4.58	5.15	5.31	12.74	13.51	14.27
5800	21.83	20.46	26.87	5.75	7.33	5.98	14.25	16.68	15.63
6000	24.33	23.79	23.08	5.85	7.12	7.33	15.94	16.79	17.59

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	25.32	25.42	25.47
1.0	25.21	25.31	25.36
2.0	25.09	25.18	25.24
3.0	25.07	25.14	25.19
4.0	25.08	25.14	25.20
5.0	25.13	25.18	25.25
6.0	25.24	25.28	25.35
7.0	25.33	25.39	25.44
8.0	25.44	25.51	25.56
9.0	25.61	25.67	25.72
10.0	25.77	25.82	25.88
11.0	25.95	26.02	26.06
12.0	26.15	26.20	26.25
13.0	26.34	26.38	26.44
14.0	26.55	26.59	26.65
15.0	26.79	26.84	26.90
16.0	27.04	27.09	27.14
17.0	27.34	27.40	27.45
18.0	27.71	27.77	27.83
19.0	28.12	28.19	28.26
20.0	28.54	28.63	28.70
20.5	28.97	29.06	29.14
21.0	29.37	29.46	29.53
21.5	29.71	29.81	29.93
22.0	30.17	30.27	30.37
22.5	30.55	30.69	30.80
23.0	30.99	31.10	31.26
23.5	31.45	31.61	31.72
24.0	31.94	32.09	32.23
24.5	32.41	32.56	32.68
25.0	32.87	33.01	33.16
25.5	33.37	33.50	33.61
26.0	33.84	34.01	34.13
26.5	34.36	34.53	34.64
27.0	34.86	35.02	35.18
27.5	35.45	35.60	35.75
28.0	36.06	36.22	36.37
28.5	36.77	36.94	37.12
29.0	37.61	37.83	38.01
29.5	38.64	38.83	39.04
30.0	39.85	40.17	40.38
31.0	43.29	43.68	44.00
32.0	48.22	48.81	49.25
33.0	54.43	55.13	55.61
34.0	59.96	60.52	60.83
35.0	61.65	61.72	61.56
40.0	26.99	26.46	26.03
45.0	13.25	13.04	12.88
50.0	8.46	8.34	8.30
55.0	6.09	6.01	6.01
60.0	5.05	4.40	4.42
65.0	3.05	3.38	3.31
70.0	2.94	1.36	3.60
75.0	2.56	1.75	1.55

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