

Surface Mount Low Pass Filter

SXLP-40+

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	0.18	0.23	0.28	33.55	31.51	29.96	33.58	31.54	29.98
5	0.24	0.29	0.34	21.78	21.57	21.33	21.86	21.63	21.40
25	0.37	0.42	0.47	17.78	18.11	18.34	17.70	17.99	18.24
35	0.53	0.60	0.68	17.81	17.73	17.69	17.81	17.75	17.71
40	0.56	0.65	0.73	22.57	22.16	21.95	22.55	22.13	21.94
49	1.33	1.48	1.67	27.02	27.63	28.85	16.90	16.78	16.59
50	2.03	2.25	2.53	13.09	12.78	12.50	11.11	10.87	10.56
51	4.42	4.79	5.25	5.41	5.30	5.29	4.94	4.86	4.80
52	9.13	9.63	10.21	2.44	2.48	2.60	2.23	2.29	2.37
53	15.24	15.84	16.48	1.46	1.57	1.70	1.36	1.47	1.58
54	22.42	23.10	23.80	1.13	1.24	1.38	1.06	1.17	1.30
60	31.52	31.75	31.96	0.78	0.87	0.97	0.76	0.86	0.94
70	38.83	39.02	39.26	0.58	0.67	0.74	0.59	0.66	0.73
80	47.56	47.67	48.06	0.47	0.53	0.60	0.47	0.54	0.60
90	55.76	55.81	55.97	0.39	0.45	0.51	0.39	0.44	0.50
100	62.91	63.31	62.96	0.33	0.39	0.44	0.33	0.38	0.43
200	85.14	81.82	84.47	0.09	0.15	0.18	0.09	0.15	0.19
300	87.47	85.48	81.47	0.03	0.09	0.12	0.05	0.10	0.14
400	87.76	89.34	91.77	0.02	0.07	0.10	0.00	0.07	0.11
500	91.33	89.08	85.45	0.00	0.07	0.11	0.01	0.07	0.11
600	90.42	87.29	99.43	0.01	0.08	0.12	0.01	0.07	0.12
700	88.38	87.91	85.70	0.03	0.07	0.13	0.00	0.08	0.14
800	92.78	94.10	86.12	0.00	0.09	0.15	0.01	0.10	0.16
900	89.06	86.50	90.34	0.04	0.09	0.16	0.03	0.09	0.16
1000	89.26	90.29	94.07	0.02	0.10	0.18	0.01	0.11	0.18
1200	89.29	85.45	86.34	0.01	0.14	0.22	0.02	0.15	0.22
1400	93.73	90.84	83.29	0.01	0.16	0.26	0.02	0.17	0.25
1500	84.43	80.09	80.40	0.01	0.18	0.27	0.03	0.18	0.28
1600	76.86	73.52	79.02	0.04	0.21	0.31	0.04	0.21	0.30
1700	64.47	70.79	64.67	0.02	0.21	0.28	0.06	0.23	0.31
1800	78.78	69.72	74.35	0.03	0.20	0.30	0.05	0.23	0.32
2000	68.43	64.56	67.99	0.06	0.27	0.35	0.06	0.26	0.36
2200	54.74	59.99	54.99	0.07	0.28	0.38	0.08	0.27	0.38
2400	55.30	56.29	56.59	0.07	0.29	0.42	0.09	0.28	0.41
2500	50.30	58.17	46.82	0.11	0.32	0.46	0.12	0.32	0.47
2600	50.29	52.29	48.32	0.09	0.30	0.46	0.13	0.32	0.45
2700	52.79	51.47	47.77	0.11	0.33	0.52	0.10	0.34	0.48
2750	51.18	50.78	52.43	0.15	0.36	0.50	0.12	0.35	0.50
2800	48.85	47.08	49.57	0.13	0.38	0.52	0.11	0.36	0.48
3000	46.47	49.32	48.32	0.18	0.40	0.58	0.14	0.40	0.57
3200	38.63	40.70	40.82	0.28	0.56	0.71	0.14	0.50	0.69
3400	39.12	38.73	39.06	0.13	0.48	0.65	0.26	0.52	0.86
3500	38.69	39.46	37.42	0.26	0.53	0.68	0.24	0.53	0.79
3600	35.98	37.09	38.44	0.25	0.55	0.74	0.21	0.56	0.76
3700	38.88	36.67	36.92	0.33	0.66	0.87	0.19	0.57	0.86
3800	35.29	34.99	35.38	0.30	0.64	0.90	0.29	0.58	0.87
4000	28.84	29.67	29.45	0.44	0.78	1.12	0.43	0.79	1.10
4200	30.16	28.98	28.51	0.64	1.10	1.35	0.61	1.04	1.58
4400	23.61	25.89	26.05	1.03	1.64	1.92	0.85	1.44	1.87
4500	23.92	23.64	24.48	1.29	2.01	2.73	1.24	2.00	2.61
4600	25.54	23.45	24.40	1.94	3.12	3.63	1.91	3.16	3.90
4700	22.73	24.68	24.23	4.16	6.20	6.17	3.18	5.75	6.68
4800	22.01	24.40	26.27	6.52	4.47	3.82	10.10	7.09	5.64
5000	25.84	23.77	26.95	1.33	2.16	2.37	1.85	2.38	2.40

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	18.90	19.24	19.19
5.0	18.87	19.11	19.05
5.5	18.90	18.96	18.84
6.0	18.65	18.68	18.79
6.5	18.43	18.93	19.28
7.0	19.32	18.87	19.00
7.5	18.66	18.71	18.40
8.0	19.10	19.18	19.35
8.5	19.04	19.02	18.97
9.0	18.95	18.88	19.36
10.0	18.87	18.49	19.26
11.0	18.58	19.55	18.80
12.0	19.07	18.99	18.58
13.0	19.10	19.65	19.35
14.0	19.09	19.58	19.10
15.0	19.01	18.94	19.32
16.0	19.54	19.66	19.68
17.0	20.03	19.67	20.11
18.0	19.83	20.00	19.91
19.0	20.51	20.35	20.71
20.0	20.26	20.38	20.26
21.0	20.62	20.47	20.72
22.0	20.56	20.88	21.01
23.0	20.70	20.67	20.82
24.0	21.34	21.22	21.12
25.0	21.61	21.71	21.61
26.0	21.91	21.65	21.90
27.0	22.36	22.47	22.50
28.0	22.61	23.03	22.86
29.0	22.96	22.93	23.18
30.0	23.17	23.06	23.22
31.0	23.61	23.54	23.42
32.0	23.67	23.77	23.53
33.0	24.15	23.89	24.40
34.0	24.80	24.70	25.05
35.0	25.49	25.50	25.60
36.0	26.05	26.53	26.44
37.0	26.91	26.98	26.95
38.0	27.80	27.80	27.62
39.0	29.11	29.25	28.97
40.0	30.36	30.29	30.46
41.0	31.73	31.94	32.05
42.0	33.54	34.09	34.00
43.0	35.63	35.92	36.36
44.0	37.96	38.33	38.35
45.0	40.46	40.05	40.70
46.0	43.51	43.96	44.36
47.0	48.68	48.74	49.16
48.0	55.18	56.14	56.81
49.0	68.80	69.82	70.84
50.0	89.98	91.65	92.31
51.0	103.41	103.54	102.31
52.0	85.42	83.18	80.30
53.0	57.03	55.03	53.00
54.0	33.93	30.76	28.82

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