

Surface Mount Low Pass Filter

SCLF-44+

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	0.01	0.02	0.03	46.57	46.07	45.22	46.82	46.47	45.65
3.0	0.03	0.04	0.04	31.89	32.10	32.38	31.78	32.01	32.18
4.0	0.04	0.05	0.05	29.50	29.70	30.00	29.39	29.59	29.78
5.0	0.04	0.05	0.06	27.69	27.89	28.20	27.57	27.76	27.95
6.0	0.05	0.06	0.06	26.26	26.46	26.80	26.14	26.33	26.53
7.0	0.05	0.07	0.07	25.13	25.34	25.66	25.01	25.20	25.40
8.0	0.07	0.07	0.08	24.23	24.43	24.76	24.10	24.28	24.48
9.0	0.09	0.08	0.10	23.52	23.72	24.03	23.38	23.56	23.75
10.0	0.08	0.09	0.10	22.96	23.14	23.47	22.79	22.96	23.16
15.0	0.11	0.12	0.12	21.99	22.11	22.43	21.73	21.82	21.98
20.0	0.11	0.12	0.13	23.69	23.67	23.92	23.15	23.10	23.20
25.0	0.12	0.14	0.16	27.30	27.06	27.06	26.26	26.04	25.99
30.0	0.15	0.17	0.20	27.01	27.21	27.24	26.55	26.85	27.05
35.0	0.19	0.22	0.25	26.40	26.91	27.45	26.64	27.28	28.12
40.0	0.28	0.31	0.35	29.75	30.22	31.12	28.50	28.81	29.15
41.0	0.31	0.34	0.39	27.57	27.59	27.78	26.41	26.39	26.25
42.0	0.36	0.40	0.44	24.25	24.00	23.82	23.49	23.31	22.98
43.0	0.41	0.45	0.52	20.70	20.35	20.05	20.37	20.07	19.71
44.0	0.51	0.56	0.63	17.27	16.93	16.55	17.20	16.91	16.49
45.0	0.68	0.74	0.84	14.05	13.71	13.34	14.15	13.83	13.45
46.0	0.94	1.03	1.16	11.05	10.76	10.39	11.21	10.95	10.58
47.0	1.41	1.52	1.70	8.32	8.08	7.78	8.54	8.31	8.00
48.0	2.15	2.31	2.55	6.00	5.81	5.58	6.20	6.04	5.81
48.5	2.65	2.83	3.10	5.00	4.85	4.65	5.21	5.07	4.88
49.0	3.27	3.47	3.77	4.13	4.01	3.85	4.32	4.22	4.07
50.0	4.82	5.04	5.39	2.75	2.68	2.60	2.94	2.89	2.80
51.0	6.71	6.97	7.37	1.80	1.78	1.75	1.97	1.97	1.93
52.0	8.92	9.16	9.58	1.22	1.21	1.22	1.36	1.37	1.37
53.0	11.27	11.53	11.95	0.83	0.85	0.87	0.98	0.99	1.01
54.0	13.73	13.98	14.39	0.62	0.64	0.66	0.74	0.77	0.79
55.0	16.27	16.50	16.92	0.47	0.49	0.53	0.58	0.62	0.64
56.0	18.80	19.03	19.45	0.39	0.41	0.44	0.47	0.50	0.53
57.0	21.40	21.59	22.03	0.32	0.34	0.39	0.40	0.44	0.45
58.0	24.00	24.23	24.64	0.28	0.30	0.34	0.34	0.38	0.40
59.0	26.65	26.87	27.30	0.24	0.27	0.31	0.31	0.35	0.36
60.0	29.32	29.56	29.97	0.22	0.24	0.28	0.28	0.32	0.33
61.0	32.09	32.34	32.76	0.20	0.22	0.25	0.25	0.29	0.31
62.0	34.98	35.22	35.68	0.19	0.21	0.23	0.23	0.27	0.29
65.0	44.76	44.99	45.64	0.16	0.18	0.20	0.19	0.22	0.25
65.5	46.74	47.06	47.76	0.16	0.18	0.20	0.18	0.22	0.23
70.0	66.20	64.57	63.23	0.13	0.14	0.16	0.14	0.17	0.19
80.0	63.31	63.18	63.69	0.10	0.12	0.14	0.10	0.13	0.14
90.0	69.54	69.16	69.32	0.09	0.10	0.13	0.08	0.12	0.11
100.0	62.20	62.34	62.38	0.09	0.10	0.13	0.08	0.11	0.11
200.0	58.24	59.05	58.33	0.10	0.11	0.14	0.07	0.10	0.09
300.0	53.53	53.93	54.22	0.10	0.12	0.15	0.09	0.12	0.11
400.0	68.12	69.35	72.20	0.10	0.13	0.17	0.10	0.13	0.12
420.0	59.40	59.15	58.78	0.11	0.14	0.18	0.11	0.14	0.13
500.0	23.22	24.01	24.64	0.50	0.47	0.50	0.57	0.56	0.48
600.0	41.48	41.80	41.66	0.14	0.17	0.21	0.13	0.16	0.17
700.0	55.16	55.82	54.83	0.23	0.28	0.34	0.19	0.23	0.24
800.0	7.20	7.34	7.55	3.72	3.73	3.80	3.48	3.79	3.90
900.0	17.14	17.38	17.41	0.33	0.39	0.45	0.41	0.46	0.48
1000.0	21.31	21.45	21.37	0.18	0.25	0.30	0.19	0.24	0.26

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	14.55	14.09	14.52
10	13.34	13.06	12.99
15	13.39	13.13	13.28
17	13.92	14.13	13.81
18	13.87	13.97	14.03
19	14.30	14.24	14.31
20	14.43	14.33	14.36
21	14.50	14.41	14.43
22	14.89	15.01	14.88
23	15.34	15.21	15.15
24	15.44	15.39	15.37
25	15.55	15.68	15.85
26	15.98	15.89	15.97
27	16.39	16.44	16.54
28	16.72	16.65	16.73
29	17.03	16.97	17.04
30	17.53	17.76	17.49
31	17.84	17.97	18.04
32	18.31	18.41	18.56
33	19.09	18.84	19.12
34	19.65	19.65	19.65
35	20.31	20.31	20.41
36	20.70	20.94	20.86
37	22.08	22.08	22.32
38	23.09	23.04	23.02
39	24.20	24.30	24.51
40	25.62	25.52	25.83
41	27.24	27.16	27.40
42	29.15	29.36	29.25
43	31.39	31.60	31.85
44	34.24	34.68	34.84
45	37.70	37.83	38.37
46	41.41	41.69	42.00
47	45.11	44.89	45.39
48	47.94	47.84	47.65
49	48.11	47.94	47.68
50	46.17	45.34	44.86
51	42.43	41.83	40.91
52	37.49	36.84	36.22
53	32.33	31.76	31.03
54	27.84	28.38	27.67
55	24.73	24.72	23.97
56	22.39	21.90	21.41
57	18.90	19.18	19.05
58	16.57	17.35	17.02
59	15.47	15.42	15.09
60	13.32	13.61	13.75
61	12.70	12.35	12.40
62	10.46	10.27	10.79
63	10.25	9.21	9.84
64	9.94	6.41	8.88
65	8.34	6.99	3.45
66	5.60	3.31	2.19
67	7.63	8.94	18.57

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