

Surface Mount Low Pass Filter

SCLF-21.4+

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	0.05	0.06	0.06	32.97	32.67	32.41	32.99	32.67	32.47
4.0	0.10	0.12	0.13	24.66	24.28	24.04	24.62	24.27	24.04
5.0	0.10	0.12	0.14	25.03	24.68	24.41	25.06	24.62	24.34
6.0	0.11	0.13	0.14	27.04	26.60	26.23	27.01	26.53	26.26
7.0	0.11	0.12	0.14	32.33	31.61	31.12	32.21	31.42	30.96
8.0	0.11	0.13	0.14	45.21	46.68	47.41	45.82	48.74	49.26
9.0	0.13	0.15	0.16	28.30	28.57	28.72	28.44	28.82	28.96
14.0	0.33	0.36	0.37	14.62	14.59	14.58	14.66	14.67	14.64
16.0	0.31	0.34	0.36	15.31	15.33	15.36	15.35	15.37	15.42
18.0	0.26	0.28	0.30	20.08	20.30	20.50	20.21	20.42	20.71
20.0	0.27	0.29	0.33	24.63	24.38	24.01	24.80	24.68	24.32
22.0	0.35	0.39	0.43	21.22	21.04	21.07	20.36	20.19	20.09
23.5	0.49	0.54	0.61	17.53	17.57	17.32	16.33	16.25	15.87
24.5	1.15	1.24	1.37	8.96	8.85	8.59	8.68	8.56	8.23
25.0	1.92	2.03	2.21	6.06	5.95	5.76	5.91	5.80	5.55
27.0	8.05	8.29	8.62	1.16	1.15	1.15	1.15	1.15	1.11
29.0	15.40	15.66	15.97	0.36	0.37	0.41	0.38	0.39	0.40
30.0	18.74	18.98	19.31	0.25	0.25	0.29	0.27	0.28	0.29
31.0	21.86	22.12	22.42	0.20	0.22	0.24	0.22	0.23	0.24
32.0	24.76	25.00	25.29	0.17	0.19	0.20	0.18	0.20	0.21
33.0	27.47	27.70	27.97	0.13	0.16	0.18	0.16	0.18	0.19
35.0	32.45	32.67	32.95	0.11	0.13	0.15	0.14	0.16	0.16
37.0	36.91	37.13	37.40	0.11	0.11	0.14	0.12	0.14	0.14
38.0	38.97	39.19	39.46	0.11	0.12	0.13	0.12	0.14	0.14
39.0	40.94	41.19	41.40	0.09	0.10	0.12	0.11	0.13	0.14
40.0	42.91	43.00	43.25	0.09	0.10	0.13	0.11	0.13	0.12
41.0	44.67	44.78	45.08	0.09	0.10	0.12	0.10	0.13	0.13
50.0	57.69	58.05	58.04	0.07	0.09	0.11	0.08	0.10	0.11
60.0	66.13	67.91	67.49	0.07	0.08	0.10	0.08	0.09	0.10
70.0	72.60	72.53	73.34	0.07	0.08	0.09	0.06	0.07	0.09
80.0	75.53	72.69	72.12	0.07	0.08	0.09	0.06	0.07	0.09
80.5	75.88	73.40	74.50	0.07	0.09	0.09	0.06	0.08	0.09
90.0	75.70	73.48	73.29	0.07	0.09	0.10	0.06	0.08	0.09
100.0	75.46	73.89	74.65	0.07	0.09	0.10	0.06	0.08	0.10
110.0	74.94	73.83	77.80	0.05	0.07	0.08	0.06	0.08	0.08
120.0	74.94	75.24	71.73	0.06	0.08	0.09	0.06	0.09	0.09
130.0	73.29	74.23	75.96	0.06	0.10	0.11	0.07	0.10	0.10
140.0	75.58	75.95	71.26	0.06	0.09	0.10	0.07	0.10	0.10
150.0	76.25	74.48	75.98	0.06	0.09	0.11	0.07	0.10	0.10
160.0	71.85	76.66	73.86	0.07	0.10	0.11	0.07	0.10	0.11
170.0	74.52	74.82	72.88	0.07	0.10	0.11	0.06	0.09	0.10
180.0	76.14	72.09	74.80	0.06	0.10	0.10	0.06	0.09	0.09
190.0	73.53	75.11	75.52	0.06	0.09	0.09	0.06	0.09	0.09
200.0	76.02	73.17	72.04	0.06	0.10	0.10	0.06	0.09	0.10
300.0	71.28	70.74	71.10	0.08	0.13	0.14	0.07	0.13	0.13
400.0	70.25	70.85	69.74	0.10	0.16	0.18	0.08	0.15	0.16
500.0	69.68	69.99	70.17	0.13	0.20	0.22	0.08	0.17	0.18
600.0	74.36	68.86	74.68	0.16	0.24	0.27	0.10	0.19	0.21
700.0	67.12	62.10	66.39	0.17	0.27	0.30	0.12	0.22	0.25
800.0	62.13	62.38	56.97	0.20	0.31	0.36	0.14	0.25	0.30
900.0	57.81	60.20	58.23	0.23	0.35	0.41	0.15	0.27	0.32
1000.0	61.50	57.08	55.72	0.28	0.42	0.50	0.19	0.31	0.38
1100.0	52.94	53.32	53.50	0.32	0.49	0.62	0.21	0.35	0.43

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0	36.76	35.59	37.33
1	35.36	35.25	35.36
2	34.55	34.70	34.94
3	34.73	34.81	34.78
4	35.11	34.78	35.26
5	35.04	35.30	35.37
6	35.69	35.79	35.69
7	36.19	35.89	36.27
8	36.59	36.66	36.91
9	36.84	36.95	36.90
10	37.49	37.56	37.49
11	37.46	37.63	37.73
12	38.00	37.91	37.96
13	38.80	38.83	38.83
14	39.06	39.17	39.26
15	39.75	40.17	40.01
16	41.64	42.08	42.11
17	43.93	44.01	44.40
18	46.04	46.58	46.60
19	48.69	49.09	49.33
20	51.51	51.54	51.88
21	54.54	54.77	55.13
22	60.14	60.40	60.75
23	69.56	70.02	71.18
24	83.04	83.44	84.73
25	90.78	91.04	91.15
26	80.05	79.12	77.85
28	44.05	43.38	41.79
30	25.55	24.72	24.67
32	17.07	16.88	17.18
33	14.82	15.27	14.45
34	13.17	12.98	13.11
35	11.67	11.05	11.11
36	10.34	10.53	9.84
38	8.39	8.75	8.14
39	6.96	9.09	8.17
40	7.95	7.51	6.67
42	1.64	3.58	7.81
43	5.98	4.11	7.17
44	7.91	4.74	1.57
45	2.06	9.71	2.38
46	6.80	9.97	1.12
48	4.99	1.39	1.83
49	0.78	1.85	0.50
50	7.60	0.62	7.42
52	10.02	0.64	5.90
53	1.65	1.40	1.91
54	2.19	1.17	5.55
55	3.17	27.04	8.55

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