

Surface Mount Low Pass Filter

SCLF-8.4+

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
0.5	0.05	0.07	0.09	39.39	38.62	37.46	39.24	38.53	37.55
1.0	0.05	0.06	0.07	34.25	33.79	33.18	34.03	33.56	33.10
2.0	0.09	0.10	0.10	28.25	27.84	27.49	27.90	27.61	27.33
3.0	0.11	0.12	0.13	24.52	24.19	23.89	24.21	23.97	23.75
4.0	0.17	0.18	0.18	22.32	22.06	21.89	22.04	21.87	21.76
5.0	0.21	0.21	0.24	22.05	21.90	21.78	21.79	21.70	21.68
6.0	0.24	0.25	0.27	24.83	24.80	24.78	24.83	24.92	25.03
7.0	0.31	0.33	0.34	28.38	28.29	27.98	29.55	29.69	29.68
8.0	0.48	0.48	0.51	45.37	45.99	49.31	35.45	35.40	35.70
8.4	0.66	0.66	0.71	19.55	19.30	19.24	19.52	19.21	19.12
9.0	2.03	2.10	2.16	7.00	6.81	6.75	7.12	6.94	6.84
9.4	4.87	5.00	5.13	3.01	2.91	2.88	3.09	2.98	2.94
10.0	11.78	11.98	12.11	0.93	0.90	0.91	1.00	0.96	0.97
10.6	19.72	19.93	20.10	0.47	0.46	0.47	0.51	0.50	0.51
10.8	22.46	22.66	22.87	0.41	0.40	0.41	0.45	0.43	0.44
11.0	25.24	25.49	25.67	0.37	0.36	0.37	0.41	0.39	0.40
11.4	31.21	31.49	31.69	0.32	0.32	0.32	0.34	0.33	0.34
12.0	42.32	42.81	43.11	0.27	0.26	0.28	0.30	0.28	0.29
12.6	60.89	60.20	59.31	0.25	0.23	0.25	0.26	0.26	0.26
13.0	50.88	50.69	50.43	0.23	0.23	0.23	0.24	0.22	0.24
14.0	47.72	47.68	47.65	0.21	0.20	0.22	0.21	0.21	0.22
15.0	49.54	49.56	49.49	0.19	0.19	0.21	0.19	0.19	0.19
16.0	52.61	52.57	52.65	0.16	0.17	0.18	0.17	0.17	0.18
17.0	55.73	56.08	56.00	0.17	0.16	0.17	0.17	0.16	0.17
18.0	59.53	59.46	59.14	0.16	0.16	0.17	0.16	0.16	0.17
19.0	62.18	61.94	62.19	0.15	0.16	0.18	0.16	0.16	0.17
20.0	63.77	63.36	64.07	0.14	0.16	0.16	0.16	0.15	0.17
25.0	61.57	61.14	61.88	0.13	0.16	0.16	0.14	0.14	0.15
30.0	59.26	58.47	58.56	0.13	0.16	0.17	0.14	0.15	0.16
40.0	57.43	57.82	57.06	0.14	0.15	0.18	0.14	0.14	0.16
50.0	58.71	58.75	59.38	0.14	0.16	0.19	0.14	0.15	0.17
60.0	61.63	61.30	61.89	0.15	0.16	0.18	0.14	0.15	0.17
70.0	66.25	64.38	66.35	0.17	0.19	0.22	0.17	0.17	0.18
80.0	71.01	70.78	70.56	0.16	0.19	0.22	0.16	0.18	0.19
90.0	74.45	75.62	75.04	0.18	0.19	0.21	0.16	0.18	0.19
100.0	70.75	71.24	70.03	0.18	0.20	0.22	0.17	0.18	0.19
150.0	62.16	62.62	62.64	0.21	0.22	0.26	0.18	0.20	0.21
200.0	59.60	58.74	58.78	0.23	0.25	0.28	0.21	0.22	0.23
210.0	51.15	51.41	51.12	0.24	0.27	0.30	0.23	0.22	0.24
340.0	45.43	44.96	44.48	0.83	0.89	0.95	0.64	0.65	0.65
350.0	35.82	35.60	35.20	1.23	1.28	1.36	0.87	0.89	0.89
400.0	23.06	23.29	23.51	0.49	0.52	0.54	0.63	0.63	0.62
450.0	28.78	28.89	28.87	0.18	0.23	0.25	0.19	0.21	0.23
500.0	30.36	30.42	30.38	0.17	0.22	0.24	0.18	0.21	0.22
550.0	30.88	30.94	30.83	0.18	0.23	0.25	0.19	0.20	0.21
600.0	30.81	30.88	30.70	0.19	0.23	0.26	0.19	0.21	0.21
650.0	30.56	30.69	30.47	0.19	0.25	0.27	0.20	0.22	0.22
700.0	30.43	30.56	30.38	0.21	0.26	0.28	0.18	0.21	0.23
750.0	29.78	29.95	29.82	0.21	0.25	0.30	0.19	0.22	0.24
800.0	29.73	29.97	29.74	0.20	0.27	0.31	0.19	0.22	0.23
850.0	28.94	29.18	29.03	0.23	0.30	0.32	0.20	0.24	0.25
900.0	29.09	29.21	29.05	0.23	0.31	0.35	0.21	0.25	0.26
950.0	28.21	28.39	28.20	0.24	0.31	0.34	0.20	0.25	0.25
1000.0	27.93	28.08	27.94	0.24	0.32	0.35	0.23	0.28	0.29

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	66.69	70.42	68.51
0.2	69.95	66.83	68.51
0.5	68.12	67.46	68.09
0.8	67.86	67.76	67.88
1.0	67.67	67.88	67.74
1.2	68.47	68.35	68.06
1.5	68.38	68.47	68.34
1.8	68.96	69.27	69.22
2.0	69.37	69.01	69.26
2.2	69.73	69.82	69.89
2.5	70.68	70.89	70.93
2.8	71.09	71.49	71.54
3.0	71.57	71.86	72.17
3.2	73.43	73.39	73.15
3.5	74.07	74.30	74.20
3.8	75.60	75.39	75.77
4.0	76.84	76.91	76.83
4.2	78.04	78.07	78.12
4.5	80.26	80.17	80.12
4.8	82.27	82.62	82.55
5.0	84.04	83.94	84.09
5.2	85.84	86.31	86.09
5.5	89.43	89.41	89.71
5.8	92.89	93.08	93.22
6.0	95.75	95.78	95.95
6.2	98.64	99.07	98.96
6.5	103.78	104.18	104.31
6.8	110.01	110.11	110.20
7.0	115.23	114.90	115.15
7.2	120.16	120.64	120.47
7.5	129.98	130.74	131.01
7.8	143.01	143.95	144.67
8.0	156.24	155.16	156.58
8.2	169.93	171.52	171.81
8.5	198.18	200.18	200.49
8.8	227.83	229.89	230.31
9.0	242.54	241.39	242.64
9.2	244.23	244.85	244.41
9.5	225.18	223.87	223.49
9.8	188.57	187.20	186.20
10.0	161.37	162.56	160.85
15.0	23.96	22.08	22.77
20.0	7.14	47.79	12.97
25.0	14.21	50.26	22.28
30.0	4.38	22.69	3.39
35.0	6.59	35.87	0.26
40.0	9.57	4.99	5.06
45.0	3.48	7.08	11.70
50.0	0.01	3.00	15.66
55.0	9.33	8.35	7.09
60.0	4.70	1.96	6.35
65.0	3.30	0.06	3.87
70.0	31.95	6.57	114.08

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