

Surface Mount Low Pass Filter

SCLF-45

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	0.14	0.03	0.05	35.46	44.72	43.86	35.40	44.95	44.03
10.0	0.19	0.09	0.08	30.87	35.09	34.45	40.83	36.42	35.65
16.5	0.22	0.11	0.11	37.86	32.29	32.28	28.68	33.17	33.27
24.0	0.30	0.18	0.19	22.84	21.36	21.15	20.63	21.34	21.14
31.5	0.34	0.24	0.27	21.25	21.13	20.85	21.66	20.97	20.69
33.0	0.35	0.25	0.28	22.22	22.49	22.29	23.58	22.31	22.06
34.0	0.36	0.26	0.29	23.20	23.93	23.64	25.49	23.65	23.34
35.0	0.36	0.27	0.30	24.43	25.66	25.36	28.12	25.28	25.03
36.0	0.36	0.27	0.30	25.69	27.37	27.08	30.94	26.98	26.71
37.0	0.38	0.29	0.32	26.41	27.74	27.47	30.55	27.64	27.38
38.0	0.40	0.30	0.34	25.92	26.12	25.87	27.07	26.31	26.09
39.0	0.43	0.32	0.36	24.38	23.64	23.44	23.80	23.99	23.73
39.5	0.44	0.33	0.37	23.44	22.48	22.27	22.44	22.81	22.60
40.0	0.46	0.35	0.39	22.49	21.35	21.18	21.27	21.73	21.51
41.0	0.48	0.38	0.42	20.77	19.51	19.33	19.33	19.87	19.66
42.0	0.54	0.44	0.47	19.30	18.04	17.85	17.85	18.39	18.21
43.0	0.58	0.48	0.52	18.21	16.95	16.75	16.78	17.32	17.14
44.0	0.63	0.52	0.57	17.42	16.19	16.01	16.12	16.62	16.42
45.0	0.65	0.55	0.61	17.06	15.80	15.64	15.81	16.33	16.20
46.0	0.70	0.59	0.64	17.06	15.81	15.66	15.94	16.49	16.40
47.0	0.71	0.62	0.68	17.60	16.30	16.16	16.69	17.30	17.27
48.0	0.74	0.63	0.71	18.84	17.39	17.25	18.34	19.13	19.25
49.0	0.74	0.66	0.73	20.67	18.92	18.70	21.57	22.90	23.31
50.0	0.81	0.74	0.82	21.15	19.32	18.86	25.27	26.82	27.17
51.0	0.93	0.87	0.98	17.51	16.32	15.79	19.59	19.39	18.94
52.0	1.19	1.16	1.29	13.09	12.24	11.83	13.66	13.44	13.08
55.0	3.49	3.51	3.76	4.96	4.37	4.23	4.64	4.60	4.47
58.0	7.94	8.00	8.33	2.10	1.62	1.60	1.70	1.71	1.69
61.0	12.91	13.00	13.32	1.24	0.79	0.82	0.84	0.86	0.88
64.0	17.58	17.69	17.99	0.93	0.53	0.55	0.56	0.58	0.60
66.0	20.51	20.57	20.88	0.83	0.45	0.47	0.48	0.51	0.52
68.0	23.21	23.32	23.56	0.76	0.40	0.42	0.43	0.46	0.47
70.0	25.76	25.87	26.13	0.70	0.37	0.39	0.38	0.41	0.42
72.0	28.22	28.31	28.57	0.66	0.35	0.36	0.38	0.40	0.41
76.0	32.75	32.87	33.09	0.60	0.33	0.34	0.34	0.37	0.38
80.0	36.92	37.07	37.31	0.56	0.30	0.31	0.32	0.35	0.36
85.0	41.84	41.94	42.12	0.52	0.30	0.31	0.31	0.33	0.33
87.0	43.73	43.80	43.98	0.50	0.30	0.31	0.31	0.33	0.32
90.0	46.34	46.61	46.63	0.48	0.29	0.30	0.30	0.33	0.32
100.0	55.20	54.88	55.14	0.43	0.28	0.28	0.27	0.30	0.30
135.0	79.31	89.80	82.21	0.31	0.25	0.26	0.25	0.29	0.28
150.0	92.76	82.03	84.79	0.29	0.26	0.26	0.25	0.28	0.28
170.0	87.85	88.71	89.69	0.27	0.26	0.27	0.23	0.27	0.27
177.0	93.24	90.68	87.89	0.27	0.26	0.26	0.23	0.27	0.26
200.0	83.84	83.23	91.18	0.25	0.25	0.26	0.23	0.26	0.26
300.0	78.10	76.82	79.09	0.24	0.27	0.28	0.22	0.26	0.28
400.0	74.85	72.89	73.75	0.26	0.31	0.32	0.23	0.30	0.29
500.0	70.72	71.59	69.89	0.28	0.36	0.35	0.23	0.31	0.31
600.0	75.03	70.99	72.97	0.31	0.38	0.40	0.24	0.34	0.33
700.0	68.20	63.00	67.08	0.32	0.42	0.44	0.26	0.36	0.37
800.0	64.06	62.09	57.77	0.36	0.46	0.49	0.28	0.39	0.42
900.0	57.92	60.13	58.06	0.37	0.49	0.53	0.31	0.41	0.45
1000.0	59.19	59.02	58.85	0.38	0.50	0.55	0.32	0.44	0.48
1100.0	59.66	59.92	58.47	0.39	0.51	0.59	0.34	0.46	0.51

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	15.54	16.69	17.32
1.0	15.47	15.37	15.77
10.0	15.54	15.67	15.63
11.0	15.28	15.44	15.37
12.0	15.57	15.50	15.32
13.0	15.69	15.92	15.78
14.0	16.04	15.62	15.70
15.0	15.48	15.54	15.38
16.5	15.92	15.85	15.82
18.0	16.25	16.29	16.14
19.0	16.36	16.37	16.36
20.0	16.44	16.17	16.21
21.0	16.32	16.37	16.21
22.0	16.53	16.57	16.54
23.0	16.73	16.77	16.60
24.0	16.46	16.61	16.85
25.0	16.86	16.89	16.76
26.0	16.94	16.94	17.09
27.0	17.06	17.03	17.23
28.0	17.62	17.31	17.50
29.0	17.26	17.43	17.36
30.0	17.84	17.89	17.79
31.5	17.99	18.27	18.10
33.0	18.44	18.76	18.70
34.0	18.81	18.70	19.06
35.0	19.00	19.22	19.46
36.0	19.43	19.50	19.57
37.0	20.02	20.29	20.26
38.0	20.26	20.32	20.64
39.0	20.72	20.75	21.27
39.5	20.91	21.14	21.10
40.0	21.03	21.30	21.44
41.0	21.69	21.71	21.50
42.0	21.90	22.17	22.25
43.0	22.45	22.56	22.66
44.0	23.14	23.30	23.43
45.0	23.86	24.07	24.28
46.0	24.75	24.91	25.26
47.0	25.92	25.93	26.02
48.0	27.76	27.94	28.02
49.0	29.52	29.54	29.91
50.0	31.84	32.23	32.67
52.0	37.92	37.92	38.38
53.0	39.50	39.64	39.89
54.0	40.36	40.07	40.06
55.0	38.68	38.45	38.08
56.0	35.34	35.01	34.30
57.0	31.78	31.52	30.76
58.0	27.58	27.33	26.62
60.0	20.80	20.18	19.94
61.0	18.49	17.78	17.59
63.0	14.85	13.89	13.88
64.0	12.76	12.53	12.98
66.0	10.26	11.14	9.93
70.0	7.89	8.44	7.95

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