

Surface Mount Low Pass Filter

SCLF-8

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	0.06	0.21	0.10	40.80	35.09	39.57	39.38	31.71	37.23
2.0	0.10	0.25	0.14	32.09	37.47	33.51	31.13	27.78	31.11
3.0	0.13	0.28	0.18	25.75	28.69	26.50	25.27	23.61	25.39
3.1	0.14	0.29	0.19	25.29	27.97	25.99	24.85	23.29	24.95
4.0	0.20	0.35	0.25	22.58	23.55	22.87	22.28	21.53	22.35
4.1	0.21	0.36	0.25	22.42	23.25	22.68	22.15	21.50	22.21
5.0	0.24	0.39	0.29	22.54	22.05	22.50	22.33	22.66	22.37
5.1	0.24	0.39	0.30	22.71	22.05	22.63	22.52	23.02	22.55
6.0	0.26	0.42	0.33	23.80	22.34	23.44	24.14	26.10	24.12
6.1	0.28	0.43	0.33	23.58	22.24	23.23	23.98	25.81	23.97
7.2	0.38	0.54	0.45	18.81	19.32	18.75	19.76	19.40	19.66
7.5	0.41	0.59	0.49	18.22	18.89	18.17	19.46	18.96	19.39
8.0	0.48	0.66	0.57	17.89	18.49	17.77	20.33	19.76	20.29
9.0	1.50	1.75	1.69	7.58	7.77	7.43	8.12	7.93	7.95
9.2	2.21	2.50	2.44	5.54	5.78	5.43	5.89	5.75	5.78
10.4	10.59	11.05	10.94	0.79	1.26	0.87	0.85	0.87	0.89
10.8	13.82	14.27	14.18	0.50	0.98	0.59	0.54	0.57	0.58
11.0	15.38	15.84	15.74	0.42	0.89	0.50	0.46	0.49	0.50
11.2	16.89	17.36	17.25	0.34	0.82	0.44	0.41	0.43	0.44
11.7	20.55	20.97	20.90	0.27	0.72	0.35	0.29	0.33	0.34
12.0	22.60	23.03	22.93	0.24	0.67	0.32	0.27	0.30	0.30
12.1	23.26	23.69	23.60	0.23	0.67	0.32	0.25	0.29	0.30
12.5	25.82	26.24	26.17	0.21	0.61	0.29	0.23	0.25	0.26
12.9	28.29	28.70	28.63	0.20	0.57	0.26	0.20	0.23	0.24
13.6	32.31	32.72	32.65	0.17	0.52	0.24	0.19	0.21	0.21
14.0	34.46	34.84	34.80	0.16	0.50	0.23	0.17	0.21	0.20
14.3	36.04	36.43	36.38	0.17	0.48	0.22	0.17	0.19	0.19
15.0	39.55	39.93	39.89	0.14	0.44	0.19	0.15	0.17	0.18
15.1	40.02	40.39	40.37	0.14	0.44	0.19	0.15	0.18	0.18
15.8	43.29	43.63	43.62	0.14	0.40	0.18	0.15	0.17	0.17
16.5	46.52	46.64	46.69	0.12	0.36	0.16	0.13	0.14	0.15
17.2	49.27	49.77	49.55	0.12	0.34	0.16	0.12	0.13	0.14
18.0	52.61	52.63	52.83	0.12	0.32	0.15	0.12	0.12	0.14
19.0	56.38	56.89	56.47	0.11	0.30	0.14	0.11	0.11	0.13
20.0	59.41	60.19	60.37	0.10	0.27	0.13	0.12	0.11	0.12
30.0	88.61	101.93	86.56	0.07	0.16	0.09	0.08	0.08	0.08
40.0	88.30	92.50	106.92	0.06	0.12	0.08	0.06	0.06	0.06
40.1	92.20	84.84	93.90	0.05	0.11	0.07	0.05	0.06	0.07
50.0	90.43	86.99	85.95	0.05	0.10	0.07	0.05	0.07	0.08
60.0	86.31	84.66	89.40	0.06	0.09	0.08	0.05	0.07	0.07
62.9	84.74	89.16	80.36	0.06	0.09	0.07	0.05	0.06	0.06
70.0	85.56	81.17	94.53	0.06	0.08	0.07	0.05	0.05	0.07
80.0	82.65	84.42	80.65	0.06	0.09	0.08	0.05	0.05	0.07
90.0	85.54	81.95	81.98	0.06	0.09	0.07	0.05	0.06	0.06
100.0	80.26	80.07	78.23	0.05	0.08	0.07	0.06	0.06	0.07
200.0	72.80	76.33	72.17	0.05	0.10	0.09	0.06	0.08	0.09
300.0	68.69	70.76	68.86	0.06	0.12	0.12	0.07	0.11	0.11
400.0	66.26	65.72	65.04	0.07	0.14	0.15	0.07	0.12	0.14
500.0	55.97	54.72	53.61	0.09	0.18	0.20	0.13	0.24	0.32
600.0	37.88	41.73	45.69	0.17	0.26	0.28	0.41	0.39	0.36
700.0	46.86	45.79	48.01	0.16	0.30	0.37	0.19	0.31	0.36
800.0	44.23	43.91	42.64	0.27	0.48	0.60	0.34	0.49	0.61
900.0	36.64	36.65	36.47	0.76	1.23	1.62	0.86	1.32	1.76
1000.0	35.07	40.13	43.75	2.86	2.35	1.95	2.70	2.21	1.84

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
1.0	89.07	89.13	89.50
1.1	89.53	89.25	89.75
1.2	89.25	89.77	89.73
1.4	89.18	89.81	89.80
1.5	89.37	89.80	89.97
1.6	89.56	89.87	89.96
1.8	89.94	90.03	90.23
2.0	90.10	89.87	90.04
2.2	90.37	90.89	91.09
2.4	91.05	90.69	91.46
2.7	91.18	91.57	91.74
2.9	92.09	92.04	92.77
3.0	92.21	91.88	91.79
3.3	93.13	93.10	93.43
3.6	93.29	93.49	93.67
4.0	95.62	95.34	95.65
4.4	97.03	97.37	97.46
4.8	99.27	99.27	99.32
5.0	100.02	100.37	100.37
5.1	100.68	101.02	101.14
5.2	101.78	101.73	102.05
5.8	106.66	106.89	107.29
6.0	108.36	108.49	108.85
6.1	109.24	109.49	109.81
6.3	111.51	111.89	112.31
7.0	120.69	120.85	121.38
7.1	121.84	122.42	122.78
8.0	146.29	147.18	147.83
8.1	150.87	151.14	151.95
8.4	166.45	167.06	168.19
9.0	196.04	196.28	197.11
9.2	198.33	198.42	198.29
10.0	151.72	150.71	149.41
10.1	142.96	142.13	140.95
11.0	83.54	83.27	83.42
11.1	80.31	79.96	80.07
12.0	53.41	54.05	53.59
12.5	45.40	45.32	44.71
13.0	38.65	38.66	38.57
13.4	34.61	35.28	34.49
14.0	29.24	29.73	29.55
14.7	25.76	24.99	24.52
15.0	23.61	23.00	23.49
16.0	20.50	19.85	21.10
16.1	19.00	19.10	21.10
17.0	12.08	18.83	16.95
18.0	11.43	21.60	20.16
19.0	16.52	7.03	2.50
20.0	2.52	3.18	2.90
21.0	8.93	47.63	8.41
22.0	16.72	0.56	16.87
23.0	16.37	26.86	39.66
24.0	8.05	7.21	49.62
25.0	40.31	20.80	7.35

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