

Surface Mount Low Pass Filter

SCLF-5

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
0.3	0.09	0.13	0.18	27.47	26.41	26.48	27.38	26.85	26.87
0.5	0.11	0.14	0.19	23.41	22.85	22.80	23.35	23.13	23.22
0.8	0.13	0.16	0.21	20.03	19.77	19.61	19.99	19.94	20.00
0.9	0.13	0.19	0.23	19.34	19.12	18.90	19.31	19.22	19.34
1.0	0.15	0.19	0.24	18.77	18.57	18.34	18.75	18.69	18.78
1.7	0.20	0.23	0.27	17.73	17.61	17.34	17.65	17.64	17.79
2.4	0.19	0.23	0.27	21.08	21.11	20.72	20.98	21.08	21.30
3.1	0.21	0.25	0.31	29.63	29.97	29.32	29.82	30.52	31.43
3.7	0.29	0.33	0.39	33.30	33.32	32.04	35.55	36.64	39.50
4.4	0.37	0.42	0.48	27.46	28.38	29.33	28.15	28.94	29.25
5.0	0.47	0.53	0.59	26.63	27.29	27.82	30.01	31.63	32.43
5.8	1.75	1.99	2.17	7.31	7.00	6.84	7.59	7.22	6.95
6.5	9.09	9.50	9.81	1.14	1.19	1.30	1.20	1.20	1.18
6.8	13.11	13.52	13.82	0.64	0.70	0.83	0.66	0.70	0.71
7.1	17.00	17.38	17.64	0.42	0.50	0.61	0.45	0.48	0.49
7.4	20.60	20.98	21.26	0.33	0.39	0.49	0.33	0.37	0.38
7.7	23.97	24.31	24.57	0.27	0.33	0.43	0.29	0.32	0.32
8.0	27.12	27.46	27.72	0.23	0.30	0.37	0.25	0.28	0.28
8.3	30.09	30.41	30.67	0.21	0.26	0.34	0.22	0.24	0.26
8.6	32.89	33.21	33.47	0.18	0.23	0.30	0.20	0.23	0.23
9.0	36.37	36.70	36.96	0.18	0.22	0.27	0.18	0.20	0.21
9.3	38.88	39.18	39.45	0.16	0.21	0.26	0.17	0.18	0.19
9.7	42.00	42.32	42.61	0.14	0.19	0.24	0.15	0.17	0.17
10.0	44.22	44.56	44.84	0.14	0.18	0.23	0.15	0.17	0.17
10.3	46.41	46.74	46.99	0.12	0.17	0.21	0.13	0.16	0.16
20.0	92.53	90.51	84.49	0.05	0.07	0.08	0.06	0.06	0.07
30.0	88.79	87.30	88.32	0.04	0.07	0.06	0.05	0.05	0.06
34.0	95.36	86.91	100.85	0.03	0.05	0.04	0.04	0.05	0.04
40.0	90.16	91.88	88.08	0.04	0.05	0.05	0.03	0.05	0.05
50.0	96.31	79.53	91.19	0.02	0.04	0.04	0.04	0.06	0.05
57.7	87.46	83.72	80.70	0.01	0.05	0.04	0.04	0.06	0.04
60.0	87.47	81.04	85.60	0.02	0.05	0.06	0.04	0.06	0.04
70.0	84.45	79.79	82.19	0.03	0.06	0.06	0.03	0.04	0.05
80.0	80.84	81.57	79.22	0.04	0.07	0.06	0.03	0.05	0.05
90.0	81.64	79.75	75.83	0.04	0.07	0.06	0.03	0.05	0.06
100.0	78.52	74.61	77.94	0.03	0.06	0.06	0.04	0.05	0.06
150.0	74.27	76.97	73.07	0.02	0.07	0.08	0.04	0.08	0.08
200.0	72.93	69.09	71.40	0.03	0.08	0.08	0.04	0.08	0.08
250.0	71.33	69.91	70.19	0.03	0.10	0.10	0.05	0.08	0.09
300.0	70.04	69.18	70.04	0.05	0.12	0.12	0.04	0.11	0.12
350.0	67.94	68.69	67.76	0.05	0.14	0.15	0.07	0.14	0.15
400.0	61.17	59.40	59.78	0.07	0.15	0.17	0.17	0.23	0.24
450.0	58.55	59.40	59.17	0.07	0.18	0.20	0.10	0.18	0.20
500.0	59.57	59.89	59.29	0.10	0.21	0.24	0.08	0.18	0.22
550.0	59.44	59.11	58.94	0.13	0.26	0.31	0.11	0.21	0.27
600.0	58.68	55.85	58.70	0.17	0.34	0.44	0.17	0.32	0.42
650.0	53.10	53.89	53.08	0.31	0.58	0.77	0.42	0.59	0.65
700.0	53.19	53.47	58.55	0.86	1.01	1.02	0.43	0.50	0.59
750.0	60.77	63.21	63.39	0.68	0.90	1.12	0.33	0.54	0.73
800.0	64.88	65.91	69.88	0.80	1.32	1.83	0.52	0.88	1.21
850.0	62.44	65.70	61.45	1.70	2.75	3.37	1.02	1.69	2.11
900.0	52.12	55.23	56.38	4.18	4.18	3.43	2.56	2.55	2.10
950.0	54.90	59.26	59.82	3.30	2.47	1.99	1.92	1.45	1.22
1000.0	59.31	61.47	59.74	1.44	1.33	1.24	0.82	0.78	0.76

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
1.0	143.96	144.63	144.97
1.1	144.59	144.49	145.14
1.2	144.86	144.66	145.28
1.3	144.38	144.51	145.08
1.4	144.86	145.26	145.68
1.5	145.36	145.85	146.12
1.6	145.72	146.25	147.02
1.7	146.05	146.63	147.13
1.8	147.29	147.99	148.58
1.9	147.84	148.39	148.76
2.0	148.74	149.14	149.63
2.1	149.65	150.52	150.63
2.2	150.58	151.34	151.99
2.3	151.80	151.85	152.81
2.4	153.17	153.53	154.16
2.5	154.41	155.08	155.63
2.6	155.45	155.92	156.35
2.7	156.23	156.76	157.55
2.8	157.71	158.14	158.71
2.9	158.89	159.35	160.33
3.0	160.17	160.70	161.26
3.1	161.85	162.34	162.93
3.5	168.04	168.34	169.57
3.6	169.87	169.78	171.14
3.7	172.06	173.00	173.51
3.8	174.44	175.15	175.85
3.9	176.86	177.57	178.43
4.0	179.50	180.04	181.11
4.1	182.37	183.42	183.78
4.5	196.62	197.38	198.75
5.0	227.33	229.11	231.38
5.1	237.04	238.62	240.98
5.5	287.40	288.56	291.39
6.0	309.81	308.30	306.10
6.5	225.32	222.35	218.22
7.0	139.90	138.41	135.37
7.5	94.32	93.42	92.91
8.0	69.76	69.05	68.61
8.5	54.03	53.91	53.36
9.0	43.51	43.14	43.13
9.5	34.29	35.47	35.45
10.0	29.31	31.30	30.04
10.5	23.76	25.42	23.44
11.0	22.17	22.24	21.55
11.5	17.87	17.86	22.23
12.0	11.44	22.31	16.53
12.5	21.16	14.51	19.65
13.0	17.36	15.10	0.63
13.5	11.76	10.63	3.49
14.0	14.27	14.82	10.25
14.5	11.24	6.39	5.21
15.0	44.03	8.41	25.36
15.5	29.41	36.31	65.99
16.0	64.50	8.13	109.95

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