

Surface Mount Low Pass Filter

SCLF-420+

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
10	0.03	0.05	0.04	50.73	47.43	48.43	50.98	46.99	48.03
12	0.02	0.05	0.03	49.29	47.11	47.80	49.37	46.66	47.40
13	0.03	0.05	0.04	48.69	46.99	47.81	48.94	46.66	47.27
14	0.03	0.05	0.04	48.02	46.69	47.58	48.33	46.21	47.05
15	0.03	0.04	0.05	47.34	46.67	47.43	47.66	46.30	46.93
20	0.02	0.05	0.04	45.15	45.99	46.97	45.45	45.18	45.60
30	0.04	0.05	0.06	41.67	45.31	47.27	41.93	43.80	44.67
40	0.06	0.07	0.07	39.50	44.06	47.80	39.86	42.05	43.42
50	0.05	0.07	0.07	38.04	42.36	45.65	38.21	39.98	41.52
60	0.06	0.07	0.08	36.87	40.22	41.51	36.94	37.83	39.04
70	0.04	0.07	0.08	35.94	37.84	37.68	35.88	35.84	36.14
80	0.07	0.08	0.10	35.05	35.48	34.46	34.82	33.80	33.53
90	0.06	0.09	0.10	33.93	33.14	31.77	33.66	31.73	31.24
100	0.06	0.09	0.10	32.83	31.01	29.42	32.54	29.89	29.07
150	0.10	0.16	0.16	25.62	23.17	21.48	25.53	22.78	21.37
170	0.12	0.18	0.19	22.86	21.00	19.61	22.84	20.72	19.56
200	0.16	0.20	0.23	19.34	18.61	17.84	19.41	18.45	17.81
250	0.24	0.27	0.28	16.27	16.91	17.09	16.32	16.86	17.15
300	0.25	0.28	0.29	17.56	18.85	20.16	17.64	19.07	20.51
330	0.20	0.27	0.28	21.46	22.62	23.90	22.00	23.49	25.18
350	0.22	0.28	0.31	23.52	23.49	22.85	24.62	24.49	23.92
370	0.25	0.33	0.38	20.35	20.08	19.23	20.79	20.33	19.52
400	0.37	0.44	0.48	15.78	15.91	15.69	15.85	15.79	15.64
420	0.42	0.48	0.53	14.99	15.21	15.35	14.83	14.89	15.04
450	0.41	0.52	0.57	18.95	19.37	19.94	17.19	17.23	17.29
470	0.64	0.76	0.88	14.97	15.00	14.23	13.54	13.38	12.66
500	3.03	3.23	3.43	4.23	4.30	4.18	4.00	4.00	3.87
550	12.65	12.88	13.03	0.66	0.76	0.78	0.58	0.64	0.65
570	16.53	16.77	16.88	0.43	0.54	0.54	0.37	0.43	0.45
600	21.98	22.19	22.33	0.28	0.38	0.40	0.24	0.33	0.33
650	30.11	30.40	30.52	0.20	0.30	0.32	0.17	0.25	0.26
700	38.45	38.64	38.95	0.15	0.26	0.28	0.13	0.20	0.23
750	46.41	46.89	46.83	0.12	0.24	0.25	0.13	0.19	0.23
800	57.30	57.97	55.59	0.11	0.22	0.25	0.12	0.18	0.23
850	65.56	63.91	65.27	0.09	0.21	0.24	0.10	0.18	0.23
900	64.35	60.99	63.57	0.08	0.20	0.24	0.11	0.19	0.23
950	61.20	59.99	61.30	0.09	0.19	0.25	0.10	0.19	0.24
1000	60.76	60.87	60.30	0.06	0.19	0.23	0.09	0.19	0.24
1100	62.03	61.78	62.85	0.06	0.20	0.24	0.10	0.19	0.25
1200	67.19	68.23	68.78	0.06	0.19	0.25	0.10	0.20	0.26
1300	73.23	73.72	75.69	0.07	0.21	0.27	0.11	0.20	0.29
1400	66.53	65.19	64.60	0.07	0.22	0.28	0.10	0.21	0.29
1500	59.99	60.37	58.06	0.08	0.21	0.29	0.09	0.21	0.29
1600	59.06	58.20	57.59	0.08	0.21	0.30	0.08	0.21	0.28
1700	56.17	55.50	55.08	0.08	0.23	0.29	0.08	0.22	0.29
1800	54.56	54.18	53.72	0.10	0.22	0.30	0.07	0.22	0.29
1900	53.10	53.70	52.71	0.10	0.23	0.31	0.08	0.21	0.28
2000	53.88	52.72	52.08	0.11	0.24	0.32	0.07	0.23	0.27
2100	51.16	50.51	50.40	0.12	0.24	0.33	0.07	0.22	0.26
2200	52.12	51.00	51.35	0.12	0.25	0.31	0.08	0.23	0.25
2300	50.18	49.84	48.99	0.11	0.24	0.31	0.08	0.25	0.25
2400	49.00	47.72	49.79	0.13	0.26	0.34	0.08	0.25	0.26
2500	48.33	49.93	47.99	0.12	0.25	0.32	0.06	0.24	0.23
2600	49.40	48.15	49.66	0.14	0.25	0.34	0.06	0.23	0.24

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	6.07	2.98	5.11
1	0.82	1.90	0.96
10	1.14	1.07	1.17
20	1.27	1.32	1.39
30	1.19	1.23	1.22
40	1.34	1.22	1.28
50	1.28	1.24	1.22
60	1.27	1.23	1.17
70	1.26	1.33	1.37
80	1.20	1.22	1.23
90	1.36	1.21	1.25
100	1.28	1.35	1.31
110	1.30	1.39	1.32
120	1.24	1.28	1.28
130	1.40	1.28	1.41
140	1.25	1.34	1.19
150	1.34	1.29	1.34
160	1.45	1.24	1.26
170	1.34	1.39	1.37
180	1.39	1.43	1.37
190	1.36	1.41	1.33
200	1.34	1.24	1.31
210	1.51	1.35	1.40
220	1.41	1.44	1.27
230	1.26	1.32	1.39
240	1.47	1.34	1.36
250	1.40	1.28	1.41
260	1.47	1.52	1.44
270	1.71	1.60	1.57
280	1.57	1.49	1.47
290	1.59	1.60	1.61
300	1.59	1.48	1.64
310	1.70	1.66	1.76
320	1.76	1.72	1.78
330	1.75	1.65	1.77
340	1.88	1.76	1.73
350	1.85	1.89	1.88
360	1.88	1.96	1.83
370	1.99	2.00	1.96
380	2.14	2.02	2.17
390	2.01	2.13	2.05
400	2.28	2.35	2.22
410	2.19	2.17	2.28
420	2.43	2.35	2.42
430	2.50	2.54	2.57
440	2.78	2.80	2.91
450	3.16	3.22	3.28
460	3.46	3.52	3.55
470	3.96	3.93	3.95
480	4.28	4.33	4.37
490	4.32	4.34	4.34
500	4.18	4.21	4.14
600	0.77	0.74	0.82
700	0.12	0.16	0.47
800	2.93	2.83	2.65

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