

# Surface Mount Low Pass Filter

# SALF-146+

## 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	0.03	0.03	0.06	49.25	48.92	43.45	49.65	49.09	43.49
10	0.06	0.06	0.09	37.38	38.46	37.65	36.91	37.45	37.29
20	0.08	0.08	0.11	32.53	33.53	33.49	31.60	32.07	32.52
30	0.10	0.10	0.14	31.37	32.36	32.20	29.69	29.98	30.32
40	0.11	0.12	0.16	33.20	34.09	33.51	29.45	29.41	29.43
50	0.13	0.14	0.18	35.06	35.33	35.83	28.77	28.53	28.44
60	0.15	0.17	0.21	28.17	28.57	30.00	25.44	25.54	25.78
70	0.19	0.21	0.25	22.39	22.88	23.90	21.39	21.76	22.24
80	0.24	0.26	0.30	18.62	19.12	19.83	18.17	18.62	19.12
90	0.30	0.32	0.36	16.17	16.62	17.12	15.95	16.36	16.83
100	0.36	0.39	0.43	14.79	15.16	15.49	14.68	15.02	15.42
130	0.40	0.47	0.54	17.93	17.72	17.38	18.01	17.68	17.71
146	0.45	0.54	0.64	25.60	24.17	22.46	26.55	24.77	23.77
160	0.82	0.96	1.11	14.98	14.51	13.87	15.19	14.75	14.22
172	3.51	3.76	4.00	4.26	4.29	4.27	4.21	4.25	4.21
198	20.68	20.94	21.20	0.35	0.42	0.46	0.33	0.39	0.45
200	22.02	22.29	22.55	0.32	0.38	0.42	0.30	0.36	0.42
210	28.52	28.81	29.11	0.22	0.28	0.31	0.22	0.26	0.33
229	40.16	40.51	40.84	0.15	0.20	0.22	0.16	0.19	0.27
240	46.42	46.78	47.12	0.14	0.18	0.20	0.15	0.18	0.25
275	57.27	57.51	57.67	0.12	0.15	0.16	0.14	0.15	0.24
300	56.11	56.32	56.25	0.11	0.14	0.16	0.14	0.14	0.24
350	53.05	53.15	53.21	0.11	0.13	0.14	0.14	0.14	0.25
400	51.54	51.62	51.71	0.11	0.13	0.15	0.14	0.14	0.26
450	50.86	50.84	50.90	0.11	0.13	0.15	0.15	0.15	0.27
500	50.50	50.53	50.57	0.10	0.13	0.14	0.15	0.15	0.28
600	51.02	51.14	51.17	0.10	0.13	0.15	0.15	0.15	0.29
650	52.57	52.71	52.76	0.11	0.13	0.15	0.16	0.16	0.30
700	55.55	55.81	55.98	0.10	0.13	0.15	0.16	0.16	0.30
750	66.82	68.44	69.72	0.10	0.13	0.16	0.17	0.17	0.31
800	58.44	57.77	57.18	0.11	0.14	0.17	0.17	0.17	0.31
850	47.62	47.40	47.09	0.10	0.14	0.16	0.17	0.18	0.32
900	40.47	40.34	40.03	0.11	0.15	0.18	0.18	0.19	0.33
1000	26.26	26.04	25.54	0.18	0.23	0.28	0.27	0.31	0.48
1100	24.77	25.17	25.53	0.19	0.24	0.28	0.31	0.33	0.49
1200	37.70	38.04	38.35	0.13	0.19	0.25	0.27	0.33	0.49
1300	32.44	32.29	31.98	0.15	0.22	0.29	0.56	0.67	0.86
1400	15.92	16.06	16.11	0.31	0.40	0.49	6.43	7.19	7.82
1500	21.50	21.72	21.98	0.22	0.32	0.43	0.69	0.74	0.94
1600	25.73	25.90	26.15	0.23	0.33	0.46	0.35	0.41	0.62
1700	29.07	29.31	29.87	0.26	0.38	0.53	0.31	0.39	0.61
1800	35.00	35.45	36.10	0.28	0.42	0.58	0.31	0.41	0.63
1900	47.49	45.10	43.26	0.33	0.47	0.66	0.31	0.43	0.67
2000	29.38	28.70	28.19	0.38	0.54	0.75	0.34	0.47	0.73
2100	21.77	21.21	20.82	0.47	0.66	0.90	0.38	0.54	0.83
2200	15.87	15.31	14.91	0.69	0.94	1.25	0.52	0.73	1.06
2300	10.38	9.80	9.41	1.32	1.78	2.32	0.88	1.20	1.64
2400	5.56	5.19	5.08	3.35	4.55	5.95	1.99	2.57	3.23
2500	3.22	3.44	3.88	6.36	7.50	8.53	3.51	3.83	4.12
2600	3.78	4.25	4.88	4.48	4.82	5.22	2.93	2.99	3.14
2700	4.96	5.37	6.02	2.85	3.27	3.79	2.06	2.21	2.43
2800	5.92	6.30	7.11	2.21	2.82	3.71	1.61	1.81	2.08
2900	6.38	7.18	9.06	2.11	3.63	6.34	1.40	1.64	1.95
3000	7.69	10.22	7.68	4.46	8.62	5.16	1.31	1.56	2.03

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# Surface Mount Low Pass Filter

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## Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	4.38	4.32	4.41
0.2	4.35	4.34	4.39
0.3	4.32	4.34	4.35
0.4	4.29	4.30	4.33
0.5	4.30	4.31	4.33
0.6	4.29	4.30	4.32
0.7	4.28	4.29	4.30
0.8	4.28	4.29	4.30
0.9	4.27	4.28	4.29
1.0	4.26	4.27	4.28
10.0	4.19	4.21	4.21
20.0	4.20	4.21	4.22
30.0	4.24	4.25	4.26
40.0	4.32	4.32	4.33
50.0	4.42	4.43	4.43
60.0	4.55	4.56	4.56
70.0	4.70	4.71	4.72
80.0	4.87	4.88	4.90
90.0	5.07	5.08	5.10
100.0	5.33	5.35	5.37
110.0	5.68	5.70	5.72
120.0	6.20	6.21	6.23
130.0	6.92	6.94	6.96
140.0	7.93	7.96	7.99
146.0	8.75	8.79	8.84
150.0	9.47	9.53	9.58
160.0	12.36	12.40	12.44
170.0	15.00	14.88	14.78
172.0	14.82	14.68	14.57
180.0	11.62	11.51	11.45
190.0	7.29	7.25	7.26
198.0	5.30	5.28	5.28
200.0	4.95	4.93	4.93
210.0	3.73	3.70	3.69
220.0	3.00	2.98	2.95
229.0	2.58	2.57	2.57
230.0	2.58	2.53	2.53
240.0	2.41	2.35	2.37
250.0	2.33	2.29	2.35
275.0	1.63	1.58	1.82
300.0	1.10	0.92	0.97
350.0	0.57	0.52	0.52
400.0	0.36	0.45	0.55
450.0	0.43	0.33	0.39
500.0	0.30	0.23	0.22
550.0	0.18	0.19	0.21
600.0	0.26	0.15	0.32
650.0	0.25	0.14	0.05
700.0	0.17	0.30	0.20
750.0	4.62	7.04	11.42
800.0	3.35	2.56	2.07
850.0	0.12	0.10	0.10
900.0	0.38	0.13	0.45

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