

Surface Mount Low Pass Filter

SALF-78

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
0.1	0.03	0.06	0.04	49.93	43.60	46.96	50.37	43.83	47.06
1	0.03	0.06	0.04	43.16	40.81	42.54	43.38	41.05	42.69
10	0.09	0.12	0.10	23.95	23.96	24.40	24.08	24.52	24.58
20	0.16	0.20	0.19	19.13	19.12	19.44	19.31	19.74	19.71
30	0.22	0.27	0.26	17.99	17.91	18.13	18.29	18.67	18.52
40	0.24	0.30	0.29	19.44	19.25	19.28	19.99	20.28	19.95
50	0.25	0.32	0.32	23.87	23.63	23.24	25.33	25.23	24.67
60	0.30	0.37	0.37	28.02	28.96	28.91	29.78	29.77	31.19
70	0.39	0.47	0.48	23.55	23.64	24.23	24.35	24.99	25.41
80	0.58	0.70	0.72	17.36	17.03	16.99	18.18	18.27	17.88
92	1.99	2.22	2.35	7.43	7.32	7.20	7.11	7.02	6.82
100	6.56	6.89	7.11	2.45	2.52	2.54	2.10	2.14	2.14
114	21.55	21.86	22.03	0.50	0.58	0.62	0.36	0.43	0.45
120	28.58	28.90	29.06	0.35	0.41	0.44	0.25	0.32	0.33
122	30.98	31.32	31.48	0.31	0.37	0.40	0.23	0.30	0.31
130	41.33	41.75	41.95	0.22	0.27	0.29	0.18	0.24	0.24
136	50.87	51.55	51.84	0.18	0.23	0.24	0.15	0.22	0.21
150	64.44	63.86	63.68	0.13	0.17	0.18	0.12	0.19	0.17
160	65.88	65.37	65.58	0.11	0.15	0.16	0.11	0.19	0.15
170	75.09	75.15	75.23	0.11	0.14	0.14	0.10	0.19	0.14
180	65.57	66.60	65.93	0.10	0.13	0.14	0.10	0.19	0.14
190	60.66	61.31	61.10	0.10	0.13	0.13	0.10	0.19	0.13
200	58.00	58.77	58.52	0.10	0.12	0.13	0.10	0.19	0.13
250	53.88	54.52	54.57	0.09	0.12	0.12	0.10	0.21	0.13
300	52.67	53.38	53.29	0.10	0.12	0.12	0.11	0.22	0.14
350	52.31	53.08	52.95	0.10	0.13	0.13	0.12	0.23	0.15
400	52.69	53.61	53.37	0.10	0.13	0.13	0.12	0.23	0.15
500	64.56	70.13	68.53	0.10	0.13	0.14	0.12	0.25	0.17
550	53.73	52.50	52.59	0.11	0.15	0.15	0.13	0.26	0.18
600	41.37	41.02	40.94	0.11	0.15	0.15	0.14	0.27	0.20
700	21.09	21.70	22.06	0.35	0.37	0.37	0.57	0.68	0.57
800	33.28	33.74	33.66	0.12	0.17	0.18	0.15	0.29	0.22
900	38.04	38.62	38.66	0.12	0.18	0.19	0.16	0.31	0.24
1000	50.21	52.33	52.47	0.13	0.20	0.22	0.23	0.39	0.34
1100	31.90	31.68	31.36	0.15	0.24	0.27	1.22	1.53	1.58
1200	34.32	35.21	35.20	0.18	0.29	0.33	0.90	1.08	1.01
1300	33.68	33.30	33.08	0.25	0.39	0.45	0.28	0.46	0.42
1400	22.59	22.40	22.36	0.46	0.64	0.73	0.26	0.45	0.42
1500	13.97	13.83	13.81	1.30	1.64	1.85	0.46	0.69	0.68
1600	7.56	7.69	7.84	4.24	4.70	4.94	1.22	1.47	1.44
1700	8.93	9.15	9.39	1.82	1.97	2.04	0.90	1.11	1.09
1800	10.99	11.05	11.27	0.95	1.13	1.22	0.65	0.87	0.89
1900	11.94	11.96	12.09	0.73	0.93	1.05	0.57	0.81	0.85
2000	12.34	12.27	12.39	0.66	0.88	1.02	0.56	0.82	0.87
2100	12.39	12.33	12.39	0.65	0.89	1.04	0.58	0.86	0.92
2200	12.38	12.31	12.36	0.67	0.90	1.10	0.61	0.89	0.98
2300	12.06	11.97	12.02	0.66	0.92	1.13	0.60	0.89	1.00
2400	11.52	11.45	11.48	0.69	0.98	1.21	0.61	0.92	1.05
2500	10.95	10.83	10.86	0.73	1.06	1.33	0.64	0.96	1.11
2600	10.54	10.28	10.36	0.81	1.26	1.62	0.68	1.03	1.21
2700	9.91	9.97	10.37	1.06	2.14	2.53	0.75	1.19	1.35
2800	10.68	10.68	10.41	3.25	1.87	2.02	0.97	1.18	1.32
2900	10.21	9.28	9.15	1.14	1.59	1.98	0.77	1.20	1.44
3000	8.75	8.14	8.09	1.22	1.85	2.32	0.92	1.42	1.68

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.1	7.02	7.09	7.37
1	7.25	7.27	7.26
10	7.12	7.14	7.16
11	7.10	7.14	7.15
12	7.11	7.14	7.14
13	7.12	7.14	7.15
14	7.12	7.14	7.16
15	7.13	7.16	7.17
16	7.13	7.15	7.17
17	7.14	7.16	7.18
18	7.15	7.17	7.18
19	7.16	7.19	7.20
20	7.17	7.18	7.21
21	7.19	7.21	7.23
22	7.21	7.23	7.24
23	7.22	7.24	7.26
24	7.23	7.25	7.27
25	7.26	7.28	7.30
26	7.29	7.31	7.33
27	7.31	7.33	7.34
28	7.32	7.34	7.36
29	7.37	7.38	7.39
30	7.40	7.42	7.44
40	7.86	7.87	7.88
50	8.55	8.57	8.58
60	9.51	9.54	9.56
70	11.01	11.06	11.09
80	13.77	13.86	13.93
90	19.32	19.36	19.38
92	20.59	20.55	20.51
100	20.26	19.98	19.68
110	11.82	11.77	11.70
111	11.20	11.14	11.10
112	10.56	10.55	10.51
113	10.05	10.00	9.96
114	9.54	9.49	9.47
115	9.07	9.03	9.04
116	8.63	8.62	8.58
117	8.20	8.18	8.15
118	7.88	7.83	7.86
119	7.49	7.42	7.40
120	7.16	7.11	7.12
121	6.77	6.78	6.71
122	6.57	6.50	6.43
123	6.23	6.20	6.26
124	5.96	5.82	5.93
125	5.68	5.65	5.65
126	5.39	5.39	5.58
127	5.17	5.12	5.10
128	4.90	4.94	4.68
129	4.72	4.65	4.33
130	5.96	6.61	6.09

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