

Surface Mount Low Pass Filter

SXLP-45+

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
0.5	0.03	0.04	0.04	42.49	42.48	41.96	44.10	43.93	43.45
5	0.05	0.06	0.06	24.67	24.46	24.23	24.72	24.47	24.24
26	0.16	0.18	0.19	21.45	21.22	21.08	21.60	21.27	21.06
42	0.32	0.35	0.39	23.46	22.89	22.33	23.68	23.24	22.72
45	0.44	0.49	0.53	17.18	16.85	16.61	17.18	16.86	16.59
51	0.64	0.70	0.78	21.04	21.26	21.90	17.84	17.63	17.40
52	0.72	0.80	0.90	21.84	21.16	20.42	17.28	16.71	15.99
53	0.91	1.02	1.17	16.17	15.39	14.49	13.94	13.28	12.49
54	1.30	1.46	1.67	11.15	10.60	9.97	10.15	9.62	9.01
57	4.37	4.70	5.11	3.49	3.35	3.20	3.28	3.13	2.97
60	9.47	9.85	10.29	1.27	1.27	1.26	1.19	1.18	1.17
70	25.13	25.41	25.73	0.35	0.38	0.41	0.34	0.36	0.39
80	36.79	37.05	37.29	0.27	0.29	0.31	0.27	0.29	0.31
90	46.38	46.55	46.81	0.24	0.26	0.28	0.23	0.26	0.28
100	54.59	54.79	55.00	0.23	0.25	0.26	0.22	0.24	0.26
200	98.59	90.14	93.18	0.19	0.20	0.22	0.17	0.20	0.23
300	95.58	98.90	103.14	0.18	0.20	0.22	0.15	0.20	0.23
400	93.93	100.22	97.16	0.19	0.22	0.24	0.15	0.22	0.25
500	103.47	103.93	94.94	0.19	0.23	0.26	0.15	0.23	0.28
600	91.70	95.07	99.36	0.20	0.25	0.28	0.15	0.25	0.30
700	88.62	101.37	93.61	0.22	0.27	0.30	0.17	0.28	0.34
800	103.21	87.47	93.59	0.24	0.30	0.34	0.18	0.30	0.37
900	92.54	88.57	94.83	0.26	0.32	0.37	0.20	0.33	0.40
1000	87.21	89.97	86.03	0.28	0.35	0.40	0.22	0.36	0.44
1200	70.03	75.63	72.49	0.34	0.42	0.47	0.26	0.43	0.52
1400	76.18	76.35	72.19	0.41	0.50	0.56	0.33	0.52	0.62
1500	61.64	62.27	71.21	0.46	0.56	0.63	0.39	0.60	0.71
1600	68.10	63.85	78.22	0.54	0.66	0.73	0.49	0.71	0.83
1800	79.96	71.73	63.38	0.84	1.00	1.10	0.83	1.12	1.27
2000	58.96	61.21	60.51	1.52	1.70	1.82	1.53	1.80	1.95
2200	54.91	58.48	55.61	1.80	1.85	1.93	1.60	1.76	1.88
2400	53.95	54.54	50.97	1.39	1.43	1.50	1.13	1.33	1.46
2500	44.79	46.56	54.41	1.23	1.28	1.35	1.04	1.20	1.35
2600	43.79	49.03	54.85	1.07	1.19	1.23	0.88	1.10	1.26
2800	44.23	46.36	44.78	1.00	1.03	1.16	0.75	1.02	1.21
3000	49.25	41.40	41.27	0.94	1.05	1.18	0.68	1.07	1.17
3200	39.35	41.12	38.92	0.88	1.02	1.10	0.64	0.97	1.28
3400	38.11	35.98	35.10	0.85	1.10	1.22	0.69	1.14	1.32
3500	37.18	36.02	32.76	0.82	1.10	1.38	0.69	1.13	1.50
3600	31.23	32.86	35.90	0.94	1.36	1.32	0.81	1.15	1.57
3800	28.68	30.37	29.39	1.21	1.55	1.51	0.82	1.39	1.73
4000	28.92	27.20	28.67	1.48	1.64	2.09	1.22	1.51	2.12
4200	32.47	26.55	25.81	1.72	1.92	1.99	1.62	2.26	2.52
4400	22.70	19.34	18.06	1.67	2.35	2.62	2.34	3.32	4.12
4500	22.08	19.51	17.80	2.14	2.71	3.76	2.99	3.99	4.87
4600	20.50	21.98	21.22	2.68	3.14	3.09	3.99	4.69	4.05
4800	18.16	16.66	18.67	3.21	4.09	3.45	4.05	4.45	5.10
5000	18.95	21.62	18.86	4.05	3.64	4.24	3.17	3.80	4.76
5200	16.32	20.40	17.37	4.37	3.66	4.48	4.64	4.11	6.08
5400	18.63	22.29	24.33	3.90	4.36	4.99	4.46	4.86	5.16
5500	20.13	19.80	18.00	4.53	4.89	5.15	4.24	6.30	6.72
5600	19.57	20.09	19.71	4.81	5.14	5.16	5.67	6.72	6.52
5800	18.91	17.84	20.57	5.65	6.21	6.21	5.75	7.37	8.04
6000	18.06	20.79	22.47	6.09	6.71	6.94	8.18	9.19	9.66

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	16.40	16.55	16.69
2	16.34	16.43	16.53
4	16.29	16.36	16.44
5	16.27	16.32	16.39
8	16.25	16.30	16.35
10	16.30	16.34	16.39
12	16.40	16.43	16.49
14	16.52	16.57	16.63
15	16.61	16.65	16.71
18	16.91	16.95	17.02
20	17.12	17.18	17.24
22	17.36	17.40	17.47
24	17.57	17.62	17.70
25	17.69	17.74	17.82
28	18.05	18.11	18.18
30	18.36	18.41	18.50
32	18.75	18.82	18.92
34	19.29	19.37	19.47
35	19.61	19.69	19.81
38	20.69	20.80	20.93
40	21.41	21.52	21.66
42	22.63	22.74	22.89
44	23.61	23.74	23.88
45	24.15	24.28	24.45
48	26.71	26.94	27.26
50	29.11	29.44	29.91
52	35.85	36.43	37.07
54	42.22	42.50	42.76
55	43.37	43.27	42.96
58	34.33	33.49	32.38
60	24.91	24.23	23.53
62	18.78	18.29	17.81
64	15.31	14.92	14.58
65	13.61	13.34	13.05
68	10.11	9.93	9.78
70	8.56	8.45	8.34
72	7.43	7.31	7.25
74	6.49	6.42	6.35
75	6.17	6.15	6.04
78	5.25	5.23	5.13
80	4.69	4.76	4.77
82	4.28	4.28	4.30
84	3.97	3.88	3.91
85	3.66	3.74	3.77
88	3.16	3.54	3.39
90	3.06	3.16	3.39
92	3.05	2.63	2.80
94	2.81	2.55	2.85
95	2.63	2.48	2.50
98	2.16	1.87	2.22
100	2.09	1.87	2.35
110	1.54	1.08	1.33
112	2.29	1.56	1.50
114	1.32	1.07	1.07
115	1.65	0.58	0.75

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