

Surface Mount Low Pass Filter

SXLP-4.7+

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	0.10	0.10	0.13	25.48	25.59	25.81	25.54	25.66	25.91
1.0	0.12	0.13	0.15	20.59	20.78	21.03	20.62	20.83	21.08
2.0	0.19	0.19	0.20	20.21	20.73	21.31	20.27	20.82	21.43
2.7	0.22	0.22	0.23	27.96	29.85	32.22	29.25	31.97	35.76
4.0	0.41	0.42	0.44	23.78	22.31	21.11	24.26	22.50	21.15
4.5	0.52	0.52	0.54	35.03	32.69	28.84	40.52	33.36	28.82
4.7	0.61	0.59	0.61	27.83	33.94	42.83	27.90	33.40	40.86
5.3	1.07	1.05	1.10	22.37	30.36	27.04	19.98	23.48	24.42
5.6	1.86	2.08	2.43	14.28	11.21	9.13	13.36	10.87	9.11
5.8	3.92	4.57	5.28	5.81	4.65	3.87	5.68	4.58	3.87
6.0	8.17	9.09	9.98	2.26	1.89	1.66	2.22	1.86	1.66
6.2	13.66	14.60	15.46	1.03	0.92	0.86	1.00	0.89	0.85
6.6	25.30	26.13	26.86	0.41	0.40	0.40	0.39	0.39	0.40
7.4	52.11	52.75	53.54	0.20	0.20	0.21	0.18	0.17	0.20
8.0	67.70	67.28	66.63	0.13	0.13	0.15	0.12	0.12	0.15
9.0	52.17	52.19	52.51	0.11	0.10	0.11	0.09	0.09	0.11
10.0	48.68	48.88	49.21	0.09	0.08	0.09	0.07	0.08	0.10
11.0	48.15	48.39	48.76	0.07	0.06	0.08	0.05	0.06	0.08
12.0	48.66	48.82	49.22	0.06	0.07	0.08	0.04	0.06	0.08
13.0	49.58	49.65	50.10	0.06	0.06	0.07	0.05	0.06	0.08
14.0	50.70	50.71	51.21	0.06	0.06	0.05	0.04	0.05	0.07
15.0	51.90	51.88	52.41	0.05	0.05	0.06	0.03	0.04	0.06
19.0	56.55	56.03	57.05	0.05	0.05	0.05	0.03	0.04	0.06
20.0	57.89	57.34	58.39	0.05	0.04	0.05	0.03	0.04	0.06
23.0	60.23	59.98	61.11	0.05	0.06	0.06	0.04	0.05	0.08
24.0	61.18	60.18	61.94	0.05	0.06	0.06	0.04	0.05	0.08
25.0	62.64	60.36	62.05	0.05	0.05	0.06	0.05	0.06	0.08
30.0	65.10	62.93	66.21	0.06	0.06	0.06	0.05	0.07	0.10
40.0	67.34	63.86	66.96	0.07	0.07	0.08	0.05	0.07	0.10
50.0	67.86	62.35	66.55	0.07	0.07	0.08	0.05	0.07	0.10
60.0	66.60	60.73	65.78	0.08	0.08	0.08	0.06	0.07	0.10
70.0	65.06	60.06	63.88	0.08	0.08	0.08	0.06	0.07	0.10
80.0	64.48	59.75	65.06	0.10	0.09	0.10	0.07	0.08	0.11
90.0	63.62	58.85	64.91	0.10	0.10	0.11	0.08	0.10	0.13
100.0	62.86	57.98	64.01	0.09	0.09	0.09	0.08	0.09	0.11
200.0	54.02	50.13	54.66	0.12	0.13	0.15	0.09	0.13	0.17
300.0	58.40	51.35	59.84	0.13	0.16	0.18	0.06	0.11	0.16
400.0	54.42	48.46	56.08	0.07	0.11	0.14	0.02	0.10	0.15
500.0	52.88	46.89	55.32	0.05	0.09	0.15	0.02	0.08	0.14
600.0	50.71	46.28	53.19	0.01	0.06	0.11	0.04	0.07	0.14
700.0	51.39	47.02	54.37	0.02	0.09	0.16	0.04	0.13	0.18
800.0	50.80	45.66	54.88	0.03	0.03	0.11	0.09	0.05	0.13
900.0	52.42	46.55	59.67	0.06	0.02	0.11	0.13	0.03	0.12
1000.0	58.63	50.69	57.98	0.00	0.08	0.17	0.13	0.04	0.14
1100.0	48.05	52.01	46.31	0.01	0.09	0.18	0.11	0.08	0.18
1200.0	43.59	48.03	45.19	0.04	0.12	0.21	0.06	0.12	0.22
1300.0	44.19	46.80	43.78	0.10	0.20	0.28	0.02	0.18	0.28
1400.0	39.96	42.18	38.16	0.19	0.29	0.39	0.10	0.29	0.41
1500.0	32.32	32.88	31.11	0.34	0.46	0.55	0.28	0.49	0.62
1600.0	23.39	23.32	22.67	0.71	0.86	1.00	0.82	1.10	1.28
1700.0	16.06	16.48	16.75	1.46	1.48	1.51	2.43	2.53	2.50
1800.0	20.00	20.40	20.64	0.70	0.79	0.88	0.66	0.84	0.93
1900.0	23.89	23.73	24.10	0.72	0.86	0.96	0.52	0.73	0.84
2000.0	25.06	24.61	24.80	0.91	1.06	1.17	0.64	0.86	1.01

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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	116.27	114.47	115.20
0.8	117.10	115.43	116.64
0.9	116.85	115.72	117.57
1.0	116.90	116.07	117.89
1.1	117.27	116.20	118.50
1.2	117.63	116.67	118.70
1.3	117.92	117.15	119.14
1.4	119.00	118.01	119.34
1.5	119.03	118.42	120.53
1.6	120.32	119.48	121.20
1.7	121.31	120.60	122.43
1.8	122.20	121.64	123.35
1.9	123.65	122.31	124.32
2.0	124.71	123.39	125.54
2.1	125.79	124.21	127.05
2.2	127.32	126.15	128.54
2.3	128.99	127.86	130.26
2.4	130.95	129.16	131.92
2.5	132.33	130.83	133.38
2.6	134.01	132.93	135.55
2.7	136.16	135.01	137.79
2.8	138.72	137.60	139.95
2.9	140.11	138.74	141.72
3.0	142.52	140.96	143.84
3.1	144.78	143.53	146.34
3.2	147.72	145.93	149.03
3.3	150.40	148.52	151.90
3.4	153.14	151.51	154.74
3.5	155.82	154.47	157.71
3.6	159.74	158.11	161.15
3.7	163.05	161.08	164.71
3.8	167.44	165.30	169.22
3.9	171.45	170.01	173.63
4.0	176.91	174.82	178.74
4.1	182.60	180.12	184.68
4.2	188.67	186.24	191.07
4.3	195.43	192.90	198.30
4.4	203.59	200.69	206.36
4.5	211.52	208.76	215.25
4.6	221.56	217.58	225.16
4.7	232.15	227.78	236.72
5.0	276.33	267.96	283.97
6.0	422.57	439.77	404.38
7.0	104.10	104.82	98.51
8.0	143.71	146.58	143.29
9.0	26.16	27.30	22.83
10.0	22.11	19.83	22.26
11.0	18.03	18.54	20.24
12.0	15.23	16.12	17.13
13.0	14.22	14.16	12.69
14.0	7.66	10.57	10.80
15.0	10.43	8.43	9.81
16.0	10.96	11.96	8.07

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