

Surface Mount Low Pass Filter

SXLP-21.4+

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	0.04	0.05	0.06	34.70	34.57	34.27	34.56	34.39	34.10
2.5	0.08	0.10	0.10	21.74	21.66	21.55	21.74	21.64	21.53
11.0	0.15	0.17	0.18	30.31	30.58	30.70	30.29	30.55	30.66
19.0	0.40	0.44	0.47	16.93	16.84	16.72	16.97	16.89	16.78
22.0	0.54	0.59	0.64	23.92	24.09	24.24	24.69	24.72	24.77
23.5	1.20	1.29	1.39	10.62	10.40	10.19	10.67	10.46	10.24
24.0	1.94	2.06	2.19	6.98	6.83	6.69	7.00	6.86	6.72
24.5	3.06	3.21	3.38	4.53	4.44	4.36	4.54	4.46	4.38
25.5	6.26	6.44	6.66	1.93	1.91	1.90	1.94	1.92	1.91
27.5	13.69	13.89	14.11	0.52	0.53	0.55	0.52	0.54	0.56
32.0	27.56	27.74	27.94	0.17	0.18	0.21	0.17	0.18	0.20
41.0	46.85	46.99	47.08	0.11	0.12	0.13	0.11	0.11	0.12
50.0	61.39	61.80	61.64	0.09	0.10	0.11	0.09	0.10	0.11
60.0	76.92	78.89	78.34	0.08	0.09	0.10	0.08	0.09	0.11
70.0	87.06	88.93	81.73	0.08	0.09	0.10	0.07	0.09	0.11
80.0	81.54	80.29	79.67	0.08	0.09	0.10	0.07	0.09	0.12
90.0	80.11	79.71	83.15	0.08	0.09	0.10	0.07	0.10	0.12
100.0	78.76	80.66	79.03	0.08	0.09	0.11	0.06	0.10	0.12
200.0	84.67	85.31	85.95	0.08	0.10	0.13	0.06	0.11	0.15
300.0	85.26	87.79	86.48	0.08	0.12	0.15	0.06	0.13	0.18
400.0	88.21	86.13	88.90	0.09	0.14	0.18	0.07	0.15	0.21
500.0	85.52	84.79	85.57	0.10	0.16	0.21	0.08	0.18	0.25
600.0	91.87	85.79	85.48	0.12	0.18	0.24	0.09	0.21	0.30
700.0	82.91	82.22	83.34	0.14	0.21	0.28	0.11	0.25	0.35
800.0	76.42	77.54	79.94	0.15	0.25	0.33	0.14	0.29	0.41
900.0	75.59	72.95	75.61	0.19	0.29	0.39	0.17	0.35	0.49
1000.0	74.20	76.77	77.03	0.23	0.35	0.47	0.23	0.44	0.61
1200.0	69.46	72.87	71.62	0.45	0.65	0.86	0.52	0.86	1.19
1300.0	70.75	77.51	71.48	0.81	1.09	1.33	0.99	1.48	1.87
1400.0	63.56	61.69	60.75	1.46	1.55	1.59	1.94	2.29	2.48
1500.0	56.13	58.58	60.67	1.39	1.40	1.50	2.39	2.48	2.60
1600.0	58.39	61.27	62.11	1.13	1.31	1.54	2.14	2.43	2.73
1700.0	62.39	63.13	65.27	1.16	1.47	1.79	2.26	2.74	3.06
1800.0	61.25	64.23	61.98	1.43	1.84	2.18	2.77	3.14	3.19
2000.0	55.28	50.50	54.13	2.44	2.60	2.57	2.64	2.50	2.42
2200.0	46.98	53.95	45.99	2.14	2.02	1.98	1.61	1.70	1.81
2300.0	49.97	53.30	48.57	1.76	1.71	1.72	1.33	1.50	1.64
2400.0	52.19	52.14	48.77	1.46	1.50	1.55	1.18	1.37	1.55
2500.0	55.13	51.51	55.32	1.29	1.35	1.47	1.06	1.31	1.47
2600.0	49.27	47.26	50.49	1.17	1.29	1.40	0.99	1.29	1.44
2700.0	40.64	42.32	41.01	1.17	1.27	1.44	1.02	1.28	1.52
2800.0	39.83	42.19	42.04	1.13	1.26	1.44	0.97	1.38	1.52
3000.0	35.65	39.02	35.79	1.18	1.40	1.60	1.02	1.41	1.66
3200.0	36.22	36.06	38.11	1.40	1.75	1.98	1.29	1.59	2.09
3300.0	36.08	37.02	37.79	1.72	1.98	2.28	1.41	1.87	2.22
3400.0	33.20	34.22	36.23	1.94	2.31	2.58	1.46	2.10	2.33
3500.0	37.87	36.76	35.91	2.36	2.57	3.21	1.63	2.33	2.51
3600.0	32.10	31.66	32.50	2.48	2.94	3.11	1.82	2.53	2.76
3700.0	30.24	28.54	32.71	2.78	3.16	3.41	2.36	2.67	3.44
3800.0	27.34	27.64	28.38	3.12	3.65	4.06	2.60	3.29	3.82
4000.0	26.10	28.07	26.66	4.43	5.10	5.61	3.59	4.57	5.16
4200.0	24.73	25.98	24.49	6.69	7.45	8.23	6.01	7.13	7.57
4400.0	31.47	26.94	34.94	9.08	9.22	9.21	8.43	10.24	10.88
4500.0	28.08	28.51	29.17	9.55	8.72	8.51	10.60	12.43	11.60

REV. X2

SXLP-21.4+

101123

Page 1 of 2



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Surface Mount Low Pass Filter

SXLP-21.4+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
0.5	37.94	38.28	38.12
1.0	37.46	37.61	37.59
1.5	37.12	37.24	37.28
2.0	36.82	36.85	36.95
2.5	36.65	36.69	36.78
3.0	36.57	36.62	36.69
3.5	36.55	36.57	36.69
4.0	36.56	36.60	36.65
4.5	36.59	36.60	36.67
5.0	36.65	36.68	36.76
5.5	36.77	36.79	36.83
6.0	36.90	36.94	37.01
6.5	37.07	37.12	37.21
7.0	37.36	37.42	37.46
7.5	37.58	37.64	37.71
8.0	37.87	37.93	37.96
8.5	38.19	38.25	38.31
9.0	38.50	38.54	38.63
9.5	38.86	38.91	39.00
10.0	39.20	39.29	39.34
10.5	39.55	39.64	39.69
11.0	39.95	39.99	40.11
11.5	40.33	40.39	40.49
12.0	40.72	40.78	40.86
12.5	41.13	41.18	41.26
13.0	41.61	41.69	41.78
13.5	42.12	42.21	42.29
14.0	42.67	42.75	42.86
14.5	43.30	43.38	43.50
15.0	43.99	44.08	44.19
15.5	44.80	44.90	45.02
16.0	45.60	45.72	45.85
16.5	46.47	46.57	46.72
17.0	47.41	47.55	47.68
17.5	48.39	48.49	48.66
18.0	49.37	49.51	49.67
18.5	50.44	50.59	50.78
19.0	51.65	51.81	51.97
19.5	53.09	53.24	53.44
20.0	54.81	55.02	55.24
20.5	57.15	57.38	57.63
21.0	60.28	60.55	60.90
21.5	64.41	64.80	65.21
22.0	69.75	70.19	70.70
25.0	81.68	81.14	80.51
26.0	64.17	63.47	62.70
27.0	47.46	46.91	46.30
28.0	35.82	35.43	34.99
29.0	28.15	27.87	27.56
30.0	22.94	22.76	22.55
35.0	11.51	11.32	11.13
40.0	6.93	7.86	6.97
45.0	5.45	4.18	4.31
50.0	4.02	2.19	3.62
55.0	1.75	1.46	1.18

REV. X2
SXLP-21.4+
101123
Page 2 of 2



Mini-Circuits®
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

