

MMIC Reflectionless Low Pass Filter

XLF-13H+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-55°C	@25°C	@+105°C	@-55°C	@+25°C	@+105°C	@-55°C	@+25°C	@+105°C
10	1.18	1.50	1.81	22.30	19.33	17.26	22.13	19.41	17.19
50	1.18	1.51	1.83	22.35	19.30	17.40	22.15	19.50	17.23
100	1.18	1.52	1.84	21.79	19.23	17.38	21.66	19.22	17.30
300	1.25	1.65	2.02	19.73	18.14	16.62	19.58	17.93	16.46
400	1.32	1.74	2.14	18.80	17.59	16.47	18.56	17.39	16.24
500	1.40	1.86	2.29	18.30	17.31	16.30	18.16	17.06	16.17
700	1.61	2.13	2.61	18.07	17.72	17.23	17.83	17.38	17.02
1000	2.02	2.63	3.22	21.61	21.91	21.51	21.44	21.70	21.51
1150	2.32	3.00	3.67	25.99	25.25	24.09	27.11	25.77	24.47
1500	3.94	4.98	6.02	22.04	21.77	21.34	21.88	21.56	21.01
1850	13.99	16.55	18.69	19.04	18.48	18.19	18.89	18.40	17.94
2000	32.87	33.39	33.29	14.68	15.16	15.66	14.62	15.37	15.62
2500	40.23	41.33	42.10	13.28	14.13	15.32	13.85	14.78	15.62
3000	44.44	43.95	43.70	15.32	16.25	17.90	15.66	17.23	18.46
3500	41.02	42.02	42.95	19.14	19.03	18.87	19.90	19.74	19.64
4000	52.34	54.52	56.63	23.74	22.91	23.08	22.83	22.99	21.71
4500	64.82	63.26	63.27	30.46	34.95	30.92	26.22	30.38	30.48
5000	58.29	58.85	58.74	37.42	30.44	28.68	42.90	34.57	36.87
5500	52.83	53.19	54.41	23.13	22.27	21.10	24.87	23.98	21.72
6000	47.89	48.40	48.92	17.69	18.55	18.20	17.94	19.29	19.76
6500	44.56	45.12	45.62	15.30	16.29	17.16	15.15	16.40	15.75
7000	42.54	42.99	43.58	13.11	14.79	15.38	13.74	14.62	15.36
7500	41.34	41.88	42.47	13.55	13.78	13.49	13.03	13.48	12.95
8000	40.68	41.37	42.00	13.35	13.07	12.31	14.01	12.63	12.16
8500	40.62	41.30	42.07	14.01	12.58	10.77	12.86	12.00	11.14
9000	40.72	41.64	42.63	13.33	12.08	10.85	13.21	11.48	10.81
9500	41.49	42.16	43.02	11.34	11.66	11.50	11.14	11.10	11.69
10000	42.30	42.93	43.62	9.71	11.17	11.68	10.29	10.81	11.26
10500	42.97	43.61	44.25	9.80	10.64	13.38	9.36	10.46	12.97
11000	43.69	44.38	45.30	8.19	9.96	12.02	9.22	10.05	11.84
11500	44.44	45.48	46.07	9.37	9.18	10.06	9.21	9.49	10.72
12000	45.37	47.26	48.80	8.56	8.28	9.09	8.92	8.87	10.02
12500	48.88	51.94	58.61	7.58	7.49	7.03	8.04	8.31	7.92
13000	56.57	51.18	51.45	6.47	7.52	8.79	8.32	8.80	9.48
13500	57.26	57.01	57.20	9.66	10.22	9.60	10.31	12.30	10.13
14000	56.46	54.19	56.06	8.32	8.75	8.55	10.54	10.56	10.16
14500	51.68	52.05	52.87	7.90	7.88	8.26	8.50	9.50	9.13
15000	52.02	51.52	52.15	5.81	7.58	7.91	7.67	9.12	8.58
15500	51.67	52.59	52.98	7.78	7.60	7.29	7.09	8.97	8.88
16000	52.60	52.42	52.73	6.37	7.80	8.55	6.95	9.00	9.48
16500	52.97	52.58	53.08	6.43	8.09	7.17	7.77	8.96	8.12
17000	51.84	52.29	52.87	6.85	8.22	10.60	8.19	8.85	10.55
17500	53.30	52.58	54.10	7.82	8.33	7.27	10.13	8.56	7.53
18000	51.77	52.77	53.28	9.28	8.29	9.58	8.54	8.12	10.25
18500	51.40	52.53	54.14	11.08	8.29	5.70	6.73	7.66	5.28
19000	51.61	52.61	53.38	7.56	8.14	9.41	7.82	7.24	8.67
19500	52.19	52.31	53.14	6.08	8.17	6.95	4.70	6.85	8.38
20000	52.26	51.49	52.35	5.61	8.05	9.44	4.87	6.51	9.63
20500	50.21	50.65	50.84	5.03	8.07	8.95	4.55	6.23	7.51
21000	49.00	48.99	49.25	6.37	7.69	12.43	5.84	6.05	8.53
21500	46.48	47.14	48.04	6.71	7.38	7.93	5.22	5.96	6.63
22000	45.95	45.94	47.10	7.08	6.68	8.06	5.76	5.97	8.07
22500	44.38	44.78	46.11	7.88	6.24	6.37	5.60	6.02	7.13
23000	42.40	43.71	44.82	6.82	5.55	6.84	6.55	6.11	7.27
23500	40.56	42.47	43.17	5.28	5.08	5.41	6.68	6.12	6.93
24000	41.38	41.65	44.13	4.14	4.71	5.37	4.84	6.14	4.93
24500	40.54	40.70	42.52	3.23	4.40	3.75	5.26	5.99	5.60
25000	39.99	40.14	41.34	2.44	4.16	5.54	3.79	5.81	4.84
25500	39.81	40.39	41.41	2.65	4.06	5.53	3.33	5.63	5.61
26000	39.66	39.68	40.76	2.53	4.01	5.91	2.84	5.54	5.36



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 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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