

# LTCC High Pass Filter

Typical Performance Data

# HFHKL-4000+

FREQUENCY (GHz)	INSERTION LOSS (dB)			RETURN LOSS (dB)		
	@-55°C	@+25°C	@+125°C	@-55°C	@+25°C	@+125°C
1.00	68.18	68.13	68.21	0.12	0.19	0.24
1.20	68.67	68.71	68.82	0.10	0.17	0.21
1.40	70.83	70.97	71.23	0.06	0.13	0.18
1.60	78.40	79.24	80.57	0.01	0.09	0.14
1.80	75.46	74.53	73.37	-0.02	0.06	0.12
2.00	63.97	63.53	62.91	-0.03	0.06	0.12
2.20	57.26	56.95	56.47	-0.02	0.07	0.14
2.40	51.93	51.61	51.15	0.00	0.10	0.17
2.60	47.10	46.80	46.28	0.05	0.16	0.24
2.80	42.39	42.12	41.62	0.13	0.25	0.33
3.00	37.81	37.48	36.91	0.22	0.34	0.43
3.20	33.09	32.67	32.03	0.33	0.46	0.55
3.40	28.17	27.66	26.91	0.44	0.58	0.69
3.60	22.93	22.32	21.46	0.56	0.71	0.85
3.80	17.30	16.62	15.65	0.77	0.95	1.15
4.00	11.31	10.62	9.61	1.36	1.66	2.11
4.20	5.58	5.09	4.42	3.53	4.32	5.67
4.40	2.08	2.05	1.98	11.28	13.50	17.69
4.60	1.21	1.34	1.45	24.74	22.33	20.04
4.80	1.06	1.18	1.26	16.07	16.05	16.53
5.00	0.92	1.03	1.09	16.29	16.83	18.34
5.20	0.79	0.90	0.96	19.48	20.51	22.88
5.40	0.69	0.80	0.88	24.67	25.83	25.66
5.60	0.65	0.76	0.85	24.24	24.02	21.74
5.80	0.64	0.75	0.84	19.95	19.92	18.58
6.00	0.64	0.75	0.84	17.64	17.45	16.64
6.20	0.64	0.76	0.85	16.35	16.06	15.67
6.40	0.65	0.77	0.85	15.49	15.24	15.27
6.60	0.67	0.79	0.85	14.72	14.77	15.16
6.80	0.69	0.80	0.85	14.32	14.54	15.22
7.00	0.70	0.81	0.84	14.21	14.52	15.34
7.20	0.71	0.81	0.83	14.39	14.66	15.58
7.40	0.70	0.80	0.81	14.76	14.91	15.89
7.60	0.67	0.78	0.77	15.16	15.36	16.34
7.80	0.64	0.75	0.72	15.66	16.07	17.16
8.00	0.60	0.70	0.67	16.38	17.10	18.59
8.20	0.55	0.65	0.61	17.15	18.20	20.23
8.40	0.49	0.59	0.56	18.20	19.36	21.89
8.60	0.44	0.55	0.53	19.86	20.88	23.99
8.80	0.40	0.51	0.51	21.92	22.53	26.07
9.00	0.37	0.49	0.52	24.30	24.37	28.45
9.20	0.35	0.48	0.53	26.09	26.24	30.52
9.40	0.36	0.49	0.56	27.32	28.44	32.78
9.60	0.39	0.52	0.60	29.06	31.28	36.40
9.80	0.43	0.56	0.64	30.91	33.23	38.69
10.00	0.48	0.61	0.68	32.79	33.45	36.02
10.20	0.53	0.65	0.72	38.32	34.87	35.76
10.40	0.58	0.70	0.75	52.89	37.65	37.03
10.60	0.61	0.73	0.76	43.24	39.87	37.62
10.80	0.63	0.75	0.76	38.74	40.86	39.12
11.00	0.65	0.75	0.75	37.70	37.50	38.67
11.20	0.65	0.75	0.74	38.35	34.54	37.60
11.40	0.64	0.75	0.73	36.52	32.26	35.16
11.60	0.63	0.74	0.74	33.18	30.33	33.52
11.80	0.62	0.74	0.75	30.87	29.51	36.53
12.00	0.62	0.75	0.77	29.52	29.31	41.82
12.20	0.63	0.76	0.80	28.45	28.29	40.03
12.40	0.64	0.78	0.84	28.52	27.87	37.74
12.60	0.67	0.81	0.88	29.43	27.91	37.47
12.80	0.71	0.84	0.93	30.24	28.42	38.21
13.00	0.75	0.88	0.97	30.99	29.90	34.79
13.20	0.78	0.91	1.01	31.55	31.67	31.69
13.40	0.81	0.95	1.03	32.38	33.23	29.70
13.60	0.84	0.99	1.06	34.70	34.81	28.73
13.80	0.87	1.02	1.07	38.72	35.79	28.61
14.00	0.88	1.04	1.08	46.15	37.44	29.60
14.20	0.91	1.07	1.10	46.44	40.30	32.39
14.40	0.92	1.09	1.12	39.88	39.99	33.27
14.60	0.93	1.11	1.14	41.43	41.91	33.97
14.80	0.96	1.15	1.18	38.93	46.73	57.27
15.00	1.01	1.21	1.26	31.43	32.78	28.88
15.20	1.06	1.28	1.37	29.45	28.49	23.50
15.40	1.13	1.37	1.52	27.70	25.03	20.17
15.60	1.26	1.52	1.78	23.50	21.27	17.04
15.80	1.45	1.74	2.11	19.86	18.25	14.69
16.00	1.71	2.05	2.56	16.82	15.61	12.73