

# Coaxial Reflectionless High Pass Filter

# ZXHF-K63M+

## 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
1	66.52	62.29	59.42	20.34	18.61	17.36	20.58	18.80	17.52
50	60.97	58.64	56.71	21.34	19.49	18.10	21.19	19.34	17.97
100	53.89	52.97	52.07	20.64	19.05	17.73	20.63	18.96	17.67
400	33.86	34.17	34.38	20.38	18.97	17.79	20.49	18.99	17.83
500	30.97	31.33	31.60	20.60	19.16	18.02	20.68	19.20	18.06
600	28.95	29.35	29.66	20.81	19.37	18.28	20.96	19.51	18.41
750	27.15	27.60	27.96	21.15	19.83	18.75	21.48	20.07	19.02
800	26.82	27.28	27.66	21.27	19.96	18.93	21.70	20.32	19.30
1000	26.77	27.31	27.75	22.13	20.98	20.08	22.84	21.56	20.60
1200	28.78	29.42	29.93	23.35	22.30	21.53	24.11	23.18	22.39
1400	33.48	34.27	34.88	23.93	23.64	23.16	25.01	24.68	24.23
2000	48.80	47.46	46.42	24.38	25.13	25.63	23.86	24.44	24.79
2100	41.06	40.54	40.14	24.84	25.55	26.04	24.11	24.56	24.87
2200	36.56	36.40	36.27	25.65	26.07	26.55	24.76	24.94	25.19
2300	33.63	33.71	33.74	26.89	26.92	27.31	25.51	25.69	25.89
2400	31.91	32.15	32.31	28.28	28.27	28.56	26.75	26.94	27.15
2500	31.08	31.46	31.72	29.94	29.78	29.98	28.89	28.85	29.06
3000	40.00	39.91	39.53	27.23	27.11	26.88	28.38	28.58	28.31
3500	26.81	26.84	26.87	20.34	20.49	20.60	19.69	19.77	19.77
3800	28.26	30.14	31.46	19.77	20.40	20.84	19.11	19.45	19.71
4000	46.72	41.20	36.59	22.22	23.49	24.47	21.34	21.95	22.43
4100	32.19	27.60	24.89	25.69	27.41	28.58	23.60	24.08	24.26
4150	24.53	21.94	20.31	28.74	30.04	30.07	24.91	24.70	24.28
4200	19.24	17.74	16.71	32.32	31.81	30.90	25.19	24.71	24.30
4300	12.42	12.04	11.72	29.22	27.97	27.44	23.30	22.99	22.81
5000	2.60	2.99	3.22	33.08	31.69	30.73	24.77	24.58	24.45
5100	2.34	2.73	2.94	31.09	29.85	29.13	24.82	24.55	24.43
5200	2.15	2.53	2.73	28.43	27.65	27.30	24.44	24.24	24.19
5300	1.99	2.36	2.56	26.36	26.05	26.00	23.80	23.82	23.87
5400	1.87	2.23	2.42	24.84	25.04	25.18	23.26	23.35	23.47
5500	1.76	2.11	2.29	23.89	24.35	24.59	22.65	22.93	23.11
5600	1.66	2.00	2.18	23.03	23.62	23.95	22.26	22.51	22.74
5700	1.58	1.92	2.09	22.82	23.20	23.64	21.93	22.19	22.47
5800	1.52	1.85	2.02	22.45	22.90	23.42	21.51	21.84	22.15
5900	1.45	1.79	1.95	22.30	22.85	23.55	21.18	21.64	21.97
6000	1.39	1.72	1.88	22.12	22.84	23.59	21.01	21.49	21.82
6100	1.35	1.67	1.82	22.07	23.04	23.88	20.86	21.37	21.67
6200	1.32	1.63	1.78	22.11	23.16	24.11	20.78	21.27	21.53
6300	1.29	1.60	1.75	22.27	23.41	24.28	20.79	21.22	21.41
7000	1.09	1.40	1.54	25.45	26.63	27.02	20.96	21.00	20.69
8000	1.00	1.31	1.44	29.15	28.20	26.47	23.16	22.00	21.51
8500	1.02	1.32	1.44	26.14	25.68	24.58	24.74	23.04	22.64
9000	0.97	1.25	1.37	24.52	24.05	22.89	27.43	24.97	23.90
9500	0.88	1.19	1.32	22.33	21.75	20.53	25.41	23.81	22.28
10000	0.89	1.19	1.33	19.99	19.52	18.39	21.80	21.05	19.74
10500	0.88	1.19	1.34	17.97	17.56	16.55	19.17	18.67	17.58
11000	0.90	1.22	1.38	16.30	15.90	15.10	17.23	16.86	15.96
11500	0.92	1.27	1.43	14.99	14.58	13.93	15.77	15.48	14.79
12000	0.95	1.31	1.48	13.96	13.55	13.03	14.81	14.39	13.86
12500	1.00	1.38	1.54	12.97	12.55	12.15	13.79	13.36	12.99
13000	1.04	1.43	1.60	12.30	11.82	11.50	13.01	12.42	12.12
13500	1.08	1.49	1.66	11.63	11.23	10.98	12.21	11.64	11.43
14000	1.13	1.54	1.71	11.18	10.93	10.72	11.29	10.95	10.78
14500	1.15	1.55	1.72	10.84	10.76	10.63	10.68	10.53	10.44
15000	1.17	1.57	1.74	10.57	10.73	10.61	10.25	10.29	10.20
15500	1.18	1.56	1.73	10.46	10.77	10.73	10.01	10.21	10.15
16000	1.16	1.54	1.72	10.57	10.93	10.89	10.09	10.25	10.19
17000	1.17	1.57	1.75	10.45	10.90	10.83	10.13	10.25	10.15
18000	1.26	1.68	1.86	10.03	10.35	10.33	9.83	9.82	9.78
19000	1.37	1.84	2.01	9.57	9.81	10.00	9.34	9.35	9.54



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IF/RF MICROWAVE COMPONENTS

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## Typical Performance Data

FREQ.  (MHz)	GROUP DELAY		
	(nsec)		
	@-55°C	@+25°C	@+105°C
5900	0.28	0.28	0.28
6000	0.27	0.27	0.27
6100	0.27	0.26	0.26
6200	0.26	0.26	0.26
6300	0.26	0.25	0.25
6400	0.25	0.25	0.25
6500	0.25	0.25	0.25
6600	0.24	0.24	0.24
6700	0.24	0.24	0.24
6800	0.24	0.24	0.24
6900	0.23	0.23	0.23
7000	0.23	0.23	0.23
7100	0.23	0.23	0.23
7200	0.23	0.22	0.23
7300	0.22	0.22	0.22
7400	0.22	0.22	0.22
7500	0.22	0.22	0.22
7600	0.22	0.22	0.22
7700	0.22	0.22	0.22
7800	0.21	0.21	0.22
7900	0.21	0.21	0.21
8000	0.21	0.21	0.21
8100	0.21	0.21	0.21
8200	0.21	0.21	0.21
8300	0.21	0.21	0.21
8400	0.20	0.20	0.20
8500	0.20	0.20	0.20
8600	0.20	0.20	0.20
8700	0.20	0.20	0.20
10000	0.20	0.19	0.20
10500	0.19	0.19	0.19
11000	0.19	0.19	0.19
11500	0.19	0.19	0.19
12000	0.19	0.19	0.19
12500	0.19	0.18	0.19
13000	0.18	0.18	0.18
13500	0.18	0.18	0.18
14000	0.18	0.18	0.18
14500	0.18	0.18	0.18
15000	0.18	0.18	0.18
15500	0.18	0.18	0.18
16000	0.18	0.18	0.18
16500	0.18	0.18	0.19
17000	0.18	0.18	0.18
17500	0.18	0.18	0.18
17800	0.18	0.18	0.18
18000	0.18	0.18	0.18
18500	0.18	0.18	0.19
18600	0.18	0.18	0.19
18800	0.18	0.18	0.19
19000	0.19	0.18	0.19