

## Typical Performance Data

FREQ.  (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C
1	92.74	100.32	101.56	0.00	0.00	0.00	0.00	0.00	0.00
6	104.69	107.07	106.89	0.00	0.00	0.00	0.00	0.00	0.00
12	117.39	96.15	103.21	0.00	0.00	0.00	0.00	0.00	0.00
16	95.84	119.25	102.90	0.01	0.01	0.01	0.01	0.01	0.01
20	114.83	103.03	103.16	0.01	0.01	0.01	0.01	0.01	0.01
24	94.18	112.36	94.24	0.01	0.01	0.01	0.01	0.01	0.01
30	91.37	96.13	97.12	0.01	0.02	0.02	0.01	0.02	0.02
36	92.28	105.26	99.08	0.02	0.03	0.03	0.02	0.03	0.03
40	104.42	93.24	97.75	0.03	0.04	0.04	0.03	0.03	0.04
46	85.69	87.09	89.32	0.04	0.05	0.05	0.04	0.04	0.04
54	75.87	74.80	74.32	0.06	0.07	0.07	0.05	0.06	0.07
58	70.09	70.10	69.69	0.06	0.08	0.08	0.06	0.07	0.08
64	63.26	62.80	62.52	0.08	0.10	0.11	0.07	0.09	0.10
68	58.77	58.61	58.37	0.10	0.12	0.12	0.08	0.11	0.11
72	54.72	54.52	54.32	0.11	0.13	0.15	0.10	0.12	0.13
75	51.85	51.61	51.39	0.12	0.15	0.16	0.11	0.14	0.15
78	49.09	48.81	48.59	0.14	0.17	0.18	0.13	0.15	0.17
83	44.59	44.33	44.10	0.17	0.20	0.22	0.15	0.18	0.20
86	41.98	41.71	41.49	0.19	0.22	0.24	0.17	0.21	0.23
89	39.40	39.15	38.94	0.21	0.25	0.27	0.19	0.23	0.26
95	34.41	34.19	33.98	0.27	0.31	0.34	0.24	0.29	0.32
99	31.16	30.95	30.75	0.31	0.37	0.40	0.29	0.35	0.38
102	28.74	28.55	28.36	0.35	0.42	0.45	0.33	0.40	0.44
104	27.14	26.96	26.78	0.38	0.45	0.49	0.36	0.43	0.48
109	23.19	23.03	22.87	0.49	0.57	0.62	0.46	0.55	0.60
113	20.04	19.92	19.77	0.60	0.69	0.76	0.58	0.68	0.75
117	16.91	16.83	16.70	0.77	0.88	0.96	0.76	0.88	0.96
121	13.82	13.78	13.68	1.04	1.18	1.27	1.04	1.18	1.29
124	11.56	11.55	11.48	1.35	1.51	1.63	1.36	1.53	1.66
127	9.38	9.41	9.37	1.81	2.00	2.15	1.84	2.05	2.21
131	6.72	6.80	6.80	2.81	3.05	3.24	2.89	3.15	3.36
133	5.55	5.65	5.68	3.55	3.82	4.03	3.65	3.95	4.18
136	4.06	4.19	4.26	5.03	5.35	5.60	5.21	5.57	5.84
139	2.93	3.08	3.17	7.05	7.42	7.71	7.34	7.77	8.09
144	1.78	1.95	2.05	11.67	12.20	12.55	12.31	12.99	13.43
152	1.09	1.24	1.34	22.15	23.22	23.77	25.22	28.29	30.61
161	0.85	0.98	1.07	29.74	27.73	26.51	27.87	26.46	25.62
167	0.76	0.89	0.96	31.64	28.52	26.77	26.83	25.48	24.61
174	0.69	0.80	0.87	42.91	34.50	30.84	28.37	27.44	26.54
181	0.63	0.73	0.80	34.22	39.30	39.14	28.62	29.38	29.51
188	0.59	0.68	0.74	26.76	28.35	29.93	25.72	26.87	28.02
208	0.52	0.61	0.65	19.80	19.72	19.99	19.72	19.63	19.92
225	0.49	0.57	0.62	18.25	17.61	17.54	18.08	17.45	17.39
260	0.41	0.50	0.55	18.42	17.27	16.64	18.04	16.94	16.35
290	0.35	0.43	0.48	19.99	18.73	17.76	19.37	18.20	17.32
330	0.30	0.37	0.41	22.92	22.03	20.81	21.99	21.14	20.10
380	0.25	0.31	0.34	27.51	28.35	27.36	26.17	26.58	25.88
525	0.20	0.27	0.31	33.35	29.03	26.48	33.22	28.72	26.10
825	0.22	0.32	0.38	22.21	20.54	18.80	21.43	19.84	18.20
975	0.23	0.34	0.41	21.26	19.39	17.75	20.34	18.66	17.13
1250	0.25	0.39	0.47	20.16	18.09	16.86	19.68	17.71	16.54
1450	0.26	0.41	0.49	19.61	17.77	16.73	19.48	17.70	16.72
1675	0.27	0.43	0.52	19.50	17.94	17.03	19.78	18.23	17.33
1800	0.27	0.43	0.53	19.92	18.36	17.48	20.29	18.78	17.91
1875	0.28	0.44	0.53	20.17	18.69	17.84	20.67	19.21	18.32
1950	0.27	0.44	0.54	20.40	19.07	18.23	21.10	19.70	18.79
2025	0.28	0.45	0.55	20.83	19.56	18.73	21.69	20.28	19.32
2075	0.28	0.45	0.55	21.34	19.96	19.18	22.24	20.69	19.74
2150	0.27	0.45	0.55	22.23	20.64	19.87	23.16	21.33	20.36
2200	0.28	0.45	0.56	22.92	21.17	20.40	23.85	21.86	20.80

# High Pass Filter

# ZX75HP-139-S+

## Typical Performance Data

FREQ.  (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
225	3.16	3.14	3.14
226	3.13	3.11	3.11
227	3.10	3.08	3.07
229	3.02	3.00	2.99
230	2.93	2.91	2.89
240	2.80	2.78	2.77
250	2.64	2.62	2.61
260	2.46	2.43	2.42
270	2.28	2.26	2.24
280	2.12	2.10	2.09
290	1.98	1.97	1.95
300	1.86	1.85	1.84
310	1.76	1.74	1.73
320	1.66	1.65	1.64
330	1.58	1.56	1.56
340	1.50	1.49	1.48
350	1.43	1.42	1.41
360	1.36	1.35	1.35
380	1.25	1.24	1.24
390	1.20	1.19	1.19
410	1.12	1.11	1.11
420	1.08	1.07	1.07
430	1.04	1.03	1.03
450	0.98	0.97	0.97
470	0.92	0.91	0.91
490	0.87	0.86	0.86
525	0.81	0.80	0.80
575	0.74	0.73	0.73
625	0.67	0.67	0.66
650	0.65	0.64	0.64
725	0.58	0.58	0.57
775	0.55	0.54	0.54
825	0.53	0.52	0.51
875	0.51	0.50	0.49
925	0.49	0.48	0.48
950	0.48	0.47	0.47
1000	0.47	0.46	0.45
1025	0.46	0.45	0.45
1075	0.45	0.44	0.43
1125	0.44	0.43	0.43
1200	0.43	0.42	0.41
1300	0.42	0.41	0.40
1375	0.41	0.40	0.39
1500	0.40	0.39	0.38
1650	0.39	0.38	0.38
1675	0.39	0.38	0.37
1775	0.38	0.37	0.37
1900	0.38	0.37	0.37
1925	0.38	0.37	0.37
1950	0.38	0.37	0.37
1975	0.38	0.37	0.36
2000	0.38	0.37	0.36
2025	0.38	0.37	0.36
2050	0.38	0.37	0.36
2075	0.38	0.37	0.36
2100	0.38	0.37	0.36
2125	0.37	0.37	0.36
2150	0.37	0.36	0.36
2175	0.37	0.36	0.36
2200	0.37	0.36	0.36