

Coaxial Band Pass Filter

ZFBP-13.5-S+

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
0.1	95.25	94.07	95.92	0.00	0.00	0.00	0.00	0.00	0.01
0.5	107.13	101.94	97.21	0.00	0.00	0.00	0.00	0.00	0.01
2.0	100.05	96.54	100.49	0.01	0.01	0.01	0.01	0.01	0.01
3.0	90.34	87.67	88.63	0.01	0.02	0.02	0.01	0.02	0.02
4.0	76.60	75.79	75.62	0.03	0.05	0.05	0.03	0.04	0.04
5.0	65.04	64.74	64.71	0.05	0.07	0.06	0.06	0.06	0.08
6.0	54.35	54.38	54.32	0.10	0.11	0.12	0.09	0.11	0.12
7.0	43.65	43.56	43.54	0.16	0.20	0.22	0.15	0.19	0.21
8.0	32.15	32.06	32.04	0.30	0.35	0.39	0.29	0.35	0.38
8.8	21.82	21.74	21.72	0.59	0.68	0.74	0.56	0.66	0.71
9.0	19.01	18.93	18.92	0.72	0.83	0.89	0.71	0.81	0.88
9.2	16.11	16.03	16.03	0.95	1.07	1.14	0.92	1.05	1.12
9.6	10.15	10.11	10.15	1.88	2.08	2.20	1.84	2.04	2.16
10.0	4.92	4.97	5.06	4.94	5.28	5.44	4.86	5.20	5.38
10.4	2.24	2.36	2.47	13.24	13.73	13.88	13.09	13.64	13.89
11.0	1.45	1.57	1.66	28.50	28.20	27.85	31.46	31.85	32.27
12.0	1.22	1.32	1.39	24.98	25.09	25.24	25.46	25.85	26.31
12.2	1.19	1.30	1.36	22.81	23.04	23.24	23.09	23.49	23.89
12.4	1.19	1.29	1.36	21.49	21.77	21.98	21.70	22.10	22.45
12.6	1.19	1.29	1.35	20.80	21.09	21.29	21.00	21.38	21.68
12.8	1.19	1.29	1.35	20.58	20.84	21.01	20.77	21.11	21.34
13.0	1.19	1.29	1.36	20.69	20.90	21.01	20.91	21.17	21.30
13.2	1.19	1.29	1.36	21.03	21.14	21.16	21.29	21.41	21.43
13.4	1.20	1.30	1.36	21.51	21.46	21.36	21.84	21.75	21.63
13.5	1.21	1.31	1.37	21.78	21.62	21.46	22.14	21.93	21.72
13.6	1.22	1.31	1.39	22.04	21.78	21.56	22.44	22.10	21.81
13.8	1.21	1.32	1.38	22.51	22.04	21.70	23.03	22.41	21.95
14.0	1.23	1.33	1.39	22.90	22.24	21.81	23.55	22.67	22.08
14.2	1.25	1.34	1.41	23.20	22.41	21.93	24.00	22.91	22.23
14.4	1.26	1.37	1.42	23.48	22.64	22.14	24.44	23.22	22.48
14.6	1.28	1.38	1.44	23.79	22.94	22.45	24.93	23.63	22.86
14.8	1.30	1.41	1.48	24.13	23.35	22.91	25.57	24.21	23.43
15.0	1.34	1.44	1.51	24.54	23.85	23.46	26.33	24.94	24.14
16.0	1.55	1.69	1.76	23.58	23.24	23.23	26.43	25.21	24.69
17.0	2.56	2.77	2.88	11.24	11.04	11.04	11.67	11.41	11.36
17.6	4.70	5.02	5.17	5.52	5.49	5.54	5.70	5.66	5.69
18.0	7.09	7.46	7.63	3.40	3.45	3.50	3.51	3.55	3.60
18.6	11.45	11.85	12.01	1.86	1.94	2.01	1.92	2.01	2.06
19.0	14.46	14.83	15.00	1.38	1.47	1.53	1.43	1.51	1.57
19.6	18.80	19.15	19.30	1.00	1.08	1.13	1.04	1.11	1.16
20.0	21.52	21.84	22.00	0.85	0.93	0.97	0.87	0.95	1.00
20.6	25.35	25.66	25.81	0.69	0.76	0.80	0.71	0.78	0.81
21.0	27.75	28.06	28.21	0.63	0.69	0.72	0.64	0.70	0.74
21.6	31.19	31.49	31.63	0.55	0.60	0.63	0.56	0.61	0.64
22.0	33.38	33.67	33.82	0.50	0.55	0.57	0.51	0.56	0.59
25.0	49.21	49.54	49.63	0.31	0.34	0.35	0.31	0.34	0.36
30.0	62.37	62.29	62.21	0.18	0.21	0.21	0.18	0.21	0.22
50.0	61.35	61.54	61.50	0.06	0.07	0.08	0.07	0.07	0.08
200.0	75.17	74.66	75.04	0.00	0.03	0.03	0.01	0.03	0.04
400.0	82.99	83.91	81.84	0.03	0.07	0.09	0.03	0.07	0.08
500.0	84.37	87.39	86.51	0.05	0.10	0.12	0.04	0.10	0.11
600.0	86.02	88.55	91.28	0.08	0.14	0.16	0.07	0.13	0.15
800.0	103.65	86.78	89.58	0.14	0.22	0.26	0.14	0.21	0.24
1000.0	76.23	73.17	69.69	0.28	0.45	0.56	0.26	0.40	0.51
1200.0	69.26	68.74	68.14	0.41	0.49	0.52	0.44	0.49	0.50
1400.0	68.93	67.55	67.23	0.37	0.49	0.54	0.32	0.45	0.50
1600.0	68.76	64.02	61.34	0.44	0.61	0.67	0.36	0.50	0.58
1800.0	48.94	46.42	44.72	0.47	0.64	0.76	0.41	0.60	0.72
2000.0	32.75	30.53	29.84	0.84	1.37	1.75	0.70	1.24	1.66
2600.0	17.72	17.24	16.93	0.90	1.42	1.77	0.74	1.15	1.40
3000.0	15.83	16.60	17.25	2.28	2.36	2.42	1.36	1.62	1.77



Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
12.5	162.35	162.18	162.01
12.6	159.51	159.36	159.52
12.7	157.64	157.56	157.61
12.8	155.04	155.07	155.29
12.9	153.53	153.44	153.77
13.0	151.67	151.76	152.02
13.1	150.40	150.77	150.74
13.2	148.84	148.90	149.25
13.3	147.95	147.96	148.31
13.4	146.69	146.81	146.36
13.5	145.26	145.49	145.42
13.6	144.44	144.57	144.33
13.7	143.61	144.08	143.56
13.8	142.50	143.29	143.10
13.9	142.08	142.46	142.60
14.0	141.94	142.06	141.86
14.1	141.48	141.60	142.03
14.2	140.69	140.85	141.20
14.3	140.67	140.63	140.57
14.4	140.73	140.42	140.70
14.5	140.73	140.42	140.70
15.0	142.46	142.60	142.76