

Coaxial Band Stop Filter

ZX75BS-100-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
0.5	0.01	0.02	0.02	55.05	52.20	50.42	54.91	52.17	50.34
5.0	0.03	0.02	0.03	39.16	37.59	36.40	39.17	37.62	36.42
20.0	0.05	0.06	0.08	27.78	26.65	25.60	27.77	26.63	25.59
30.0	0.08	0.10	0.12	24.08	23.37	22.61	24.09	23.37	22.65
40.0	0.12	0.14	0.16	21.56	21.30	20.97	21.54	21.28	20.99
45.0	0.14	0.17	0.19	20.73	20.73	20.69	20.70	20.68	20.71
50.0	0.18	0.20	0.22	20.33	20.62	20.92	20.27	20.55	20.92
55.0	0.22	0.24	0.27	20.58	21.26	22.08	20.50	21.15	22.03
60.0	0.26	0.30	0.33	22.21	23.54	25.32	22.04	23.27	25.01
65.0	0.36	0.42	0.47	26.87	28.86	30.20	26.40	28.03	28.92
70.0	0.58	0.69	0.79	25.93	24.50	22.81	25.75	24.13	22.35
72.0	0.76	0.88	1.00	24.19	23.27	22.18	23.49	22.35	21.12
74.0	1.01	1.16	1.34	26.65	27.08	27.56	22.66	22.03	21.25
76.0	1.57	1.82	2.13	20.34	19.68	18.63	16.73	16.01	14.99
78.0	3.58	4.11	4.79	8.36	8.00	7.53	7.58	7.20	6.69
80.0	9.32	10.13	11.15	3.19	3.21	3.22	2.92	2.92	2.89
82.0	18.40	19.25	20.36	1.67	1.79	1.91	1.55	1.66	1.75
84.0	29.83	30.77	31.99	1.19	1.32	1.45	1.15	1.27	1.36
86.0	46.16	47.37	48.69	0.97	1.09	1.22	0.96	1.07	1.17
88.0	55.09	54.73	54.61	0.84	0.96	1.09	0.84	0.96	1.06
90.0	61.44	60.59	59.79	0.75	0.87	0.99	0.77	0.88	0.96
90.4	61.72	61.19	58.76	0.73	0.86	0.98	0.76	0.87	0.95
91.0	58.72	57.84	55.80	0.72	0.84	0.96	0.74	0.84	0.93
92.0	54.15	54.01	53.14	0.69	0.80	0.93	0.71	0.81	0.90
93.0	52.08	51.58	51.12	0.66	0.79	0.91	0.69	0.79	0.87
94.0	50.76	50.62	50.36	0.65	0.78	0.90	0.66	0.77	0.86
95.0	50.39	50.49	50.25	0.64	0.77	0.90	0.66	0.76	0.84
96.0	50.68	50.52	50.52	0.64	0.78	0.93	0.66	0.76	0.85
97.0	51.65	52.26	54.40	0.72	0.88	1.05	0.68	0.78	0.89
98.0	66.87	78.50	65.38	0.96	1.12	1.24	0.69	0.79	0.87
99.0	61.74	61.79	61.63	0.91	0.96	1.02	0.64	0.74	0.83
100.0	69.97	67.94	68.71	0.70	0.79	0.90	0.62	0.73	0.81
101.0	72.09	71.04	68.87	0.64	0.75	0.86	0.62	0.72	0.81
102.0	69.80	70.24	68.06	0.63	0.74	0.86	0.63	0.73	0.81
103.0	66.43	67.83	67.42	0.63	0.75	0.88	0.63	0.73	0.81
104.0	65.89	64.82	63.64	0.63	0.75	0.89	0.63	0.74	0.83
105.0	60.76	59.78	59.15	0.65	0.77	0.91	0.65	0.76	0.83
106.0	57.00	56.31	55.59	0.67	0.80	0.94	0.67	0.77	0.85
107.0	53.87	53.65	53.28	0.71	0.83	0.98	0.69	0.80	0.89
108.0	52.43	52.16	52.33	0.74	0.87	1.03	0.72	0.83	0.92
109.0	52.40	52.44	51.99	0.79	0.92	1.09	0.76	0.86	0.96
109.5	52.53	52.20	51.44	0.81	0.95	1.12	0.78	0.89	0.98
109.6	52.69	51.95	50.86	0.82	0.96	1.13	0.79	0.90	0.99
110.0	51.71	50.92	49.24	0.85	0.99	1.17	0.81	0.91	1.02
120.0	7.63	7.58	7.46	5.31	5.73	6.40	4.49	4.77	5.14
130.0	1.26	1.35	1.45	20.78	19.90	18.94	20.17	19.13	18.01
140.0	0.70	0.76	0.82	30.94	29.33	27.07	28.55	26.51	24.01
142.0	0.64	0.69	0.75	32.60	32.89	30.77	28.85	27.77	25.52
144.0	0.60	0.65	0.70	30.98	33.55	34.87	27.74	27.82	26.49
146.0	0.56	0.61	0.65	28.51	30.99	34.93	26.25	26.94	26.67
150.0	0.50	0.54	0.58	24.96	26.38	28.73	23.69	24.54	25.28
200.0	0.26	0.30	0.32	18.69	18.43	18.17	18.42	18.29	18.13
300.0	0.14	0.20	0.22	20.24	19.41	18.90	20.22	19.34	18.79
400.0	0.12	0.18	0.21	21.29	19.97	18.94	21.20	19.92	18.90
500.0	0.12	0.18	0.22	21.17	19.97	18.69	21.10	19.91	18.61
600.0	0.11	0.18	0.23	20.84	19.66	18.27	20.80	19.57	18.11
700.0	0.10	0.18	0.23	19.93	19.13	17.69	19.90	19.02	17.57
800.0	0.12	0.21	0.28	19.55	18.49	17.02	19.46	18.39	16.90
900.0	0.15	0.25	0.31	18.53	17.79	16.56	18.46	17.70	16.43
1000.0	0.19	0.30	0.36	17.83	17.14	16.04	17.67	17.02	15.90

Typical Performance Data

FREQ.	GROUP DELAY-1			FREQ.	GROUP DELAY-2		
(MHz)	(ns)			(MHz)	(ns)		
	@-40°C	@+25°C	@+85°C		@-40°C	@+25°C	@+85°C
0.5	2.30	2.28	2.48	146.0	6.29	6.25	6.15
1.0	2.35	2.31	2.49	150.0	5.26	5.21	5.14
2.0	2.45	2.47	2.52	160.0	3.61	3.57	3.54
3.0	2.53	2.53	2.53	170.0	2.67	2.64	2.58
4.0	2.53	2.54	2.51	180.0	2.09	2.05	2.02
5.0	2.56	2.52	2.54	190.0	1.69	1.67	1.63
6.0	2.52	2.52	2.55	200.0	1.42	1.38	1.35
7.0	2.50	2.49	2.49	210.0	1.19	1.17	1.15
8.0	2.50	2.55	2.53	220.0	1.04	1.02	0.98
9.0	2.55	2.55	2.52	230.0	0.94	0.91	0.87
10.0	2.60	2.58	2.59	240.0	0.83	0.82	0.80
11.0	2.57	2.59	2.56	242.0	0.82	0.79	0.77
12.0	2.61	2.59	2.59	250.0	0.75	0.73	0.69
13.0	2.60	2.59	2.54	260.0	0.68	0.65	0.63
14.0	2.60	2.63	2.57	270.0	0.63	0.59	0.57
15.0	2.67	2.67	2.64	280.0	0.60	0.58	0.56
16.0	2.64	2.67	2.62	290.0	0.56	0.52	0.51
17.0	2.76	2.72	2.68	300.0	0.50	0.48	0.47
18.0	2.74	2.72	2.67	310.0	0.46	0.44	0.43
19.0	2.77	2.76	2.76	320.0	0.46	0.43	0.40
20.0	2.79	2.80	2.77	330.0	0.44	0.43	0.40
21.0	2.81	2.83	2.76	340.0	0.42	0.39	0.38
22.0	2.86	2.85	2.84	350.0	0.39	0.38	0.35
23.0	2.91	2.91	2.90	400.0	0.34	0.31	0.28
24.0	2.94	2.93	2.92	450.0	0.29	0.26	0.24
25.0	3.00	2.98	2.95	500.0	0.26	0.24	0.22
26.0	3.04	3.02	3.00	510.0	0.26	0.24	0.20
27.0	3.09	3.10	3.06	520.0	0.25	0.24	0.21
28.0	3.13	3.13	3.11	530.0	0.25	0.23	0.21
29.0	3.21	3.22	3.20	540.0	0.25	0.23	0.21
30.0	3.29	3.28	3.26	550.0	0.25	0.23	0.21
31.0	3.33	3.31	3.31	560.0	0.24	0.21	0.19
32.0	3.41	3.41	3.38	570.0	0.24	0.21	0.19
33.0	3.47	3.46	3.42	580.0	0.24	0.22	0.20
34.0	3.54	3.54	3.55	590.0	0.24	0.22	0.20
35.0	3.63	3.60	3.61	600.0	0.24	0.21	0.20
36.0	3.70	3.70	3.68	610.0	0.23	0.21	0.19
37.0	3.80	3.82	3.80	620.0	0.23	0.21	0.18
38.0	3.92	3.90	3.87	630.0	0.23	0.21	0.18
39.0	4.02	4.00	4.01	640.0	0.23	0.21	0.18
40.0	4.15	4.13	4.12	650.0	0.23	0.21	0.19
41.0	4.26	4.26	4.21	660.0	0.22	0.20	0.18
42.0	4.36	4.35	4.33	670.0	0.21	0.19	0.17
43.0	4.48	4.45	4.47	680.0	0.21	0.19	0.17
44.0	4.64	4.60	4.60	690.0	0.22	0.20	0.17
45.0	4.76	4.74	4.79	700.0	0.22	0.20	0.18
46.0	4.95	4.91	4.94	710.0	0.22	0.20	0.18
47.0	5.13	5.13	5.11	720.0	0.21	0.19	0.16
48.0	5.29	5.30	5.32	730.0	0.20	0.18	0.16
49.0	5.50	5.50	5.53	740.0	0.21	0.18	0.16
50.0	5.71	5.75	5.73	750.0	0.22	0.20	0.18
54.0	6.78	6.82	6.85	800.0	0.21	0.19	0.16
55.0	7.11	7.10	7.16	850.0	0.20	0.18	0.15
60.0	9.25	9.30	9.41	900.0	0.19	0.17	0.14
65.0	12.83	12.96	13.10	950.0	0.18	0.16	0.14
70.0	19.65	19.86	20.12	1000.0	0.18	0.16	0.14