

Coaxial Band Stop Filter

ZX75BS-160-S+

Typical Performance Data

FREQ.	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
(MHz)	(dB)			(dB)			(dB)		
	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C
1.0	0.01	0.02	0.02	61.18	57.01	54.58	61.10	57.22	54.58
10.0	0.02	0.03	0.04	48.70	43.46	40.33	48.26	43.48	40.54
20.0	0.02	0.03	0.04	42.91	38.39	35.29	42.15	38.31	35.45
30.0	0.03	0.04	0.05	38.47	35.14	32.41	37.84	35.13	32.72
40.0	0.03	0.05	0.06	34.75	32.71	30.60	34.24	32.68	30.97
50.0	0.04	0.06	0.07	31.64	30.75	29.45	31.27	30.71	29.87
60.0	0.06	0.08	0.09	29.01	29.06	28.74	28.75	29.02	29.14
70.0	0.08	0.09	0.11	26.81	27.58	28.29	26.60	27.48	28.58
80.0	0.11	0.13	0.14	25.03	26.33	27.91	24.86	26.18	27.98
90.0	0.15	0.18	0.20	23.65	25.23	27.34	23.54	25.07	27.14
100.0	0.23	0.27	0.29	22.72	24.30	26.21	22.65	24.16	25.89
110.0	0.39	0.45	0.49	21.86	22.96	24.00	21.94	23.00	23.84
115.0	0.54	0.62	0.68	20.85	21.64	22.21	21.03	21.68	22.01
120.0	0.82	0.93	1.03	18.78	19.22	19.50	18.68	18.83	18.73
130.0	3.97	4.46	4.97	7.98	7.80	7.59	6.93	6.69	6.40
135.0	12.47	13.34	14.23	3.47	3.54	3.59	2.78	2.84	2.89
140.0	28.86	29.98	31.07	2.13	2.27	2.39	1.74	1.88	2.00
144.0	48.91	49.03	48.93	1.69	1.85	1.97	1.46	1.60	1.72
145.0	51.15	50.80	50.51	1.62	1.77	1.90	1.41	1.55	1.67
146.0	52.34	51.86	51.50	1.55	1.70	1.83	1.37	1.51	1.63
150.0	48.69	47.77	47.02	1.36	1.51	1.64	1.25	1.39	1.52
150.3	48.16	47.29	46.57	1.35	1.50	1.63	1.24	1.39	1.51
152.0	45.80	45.31	44.80	1.30	1.46	1.59	1.25	1.40	1.54
153.0	45.24	44.88	44.66	1.27	1.43	1.58	1.28	1.45	1.59
154.0	45.33	45.23	45.25	1.26	1.42	1.56	1.36	1.53	1.68
155.0	46.32	46.63	46.89	1.24	1.40	1.54	1.43	1.59	1.69
156.0	48.50	48.82	48.94	1.22	1.38	1.52	1.41	1.52	1.60
157.0	50.49	50.22	50.72	1.21	1.36	1.49	1.28	1.39	1.46
158.0	51.53	51.70	51.72	1.20	1.35	1.48	1.15	1.27	1.36
159.0	52.71	52.99	53.04	1.21	1.36	1.49	1.07	1.20	1.29
160.0	53.85	54.52	54.67	1.22	1.37	1.50	1.02	1.15	1.25
161.0	55.78	56.25	56.41	1.24	1.39	1.52	0.99	1.12	1.22
162.0	56.96	57.45	58.35	1.27	1.41	1.55	0.98	1.11	1.21
163.0	58.01	57.92	57.82	1.30	1.45	1.59	0.97	1.11	1.20
164.0	57.29	57.06	56.56	1.34	1.49	1.63	0.97	1.11	1.21
165.0	55.65	55.22	54.80	1.39	1.55	1.68	0.97	1.12	1.22
166.0	53.93	53.55	53.14	1.45	1.60	1.75	0.99	1.13	1.24
167.0	52.80	52.28	51.96	1.52	1.68	1.83	1.01	1.16	1.26
168.0	51.55	51.30	50.26	1.61	1.77	1.92	1.04	1.18	1.29
169.0	50.37	49.22	48.18	1.71	1.88	2.03	1.07	1.23	1.34
169.7	48.45	47.19	45.91	1.80	1.97	2.13	1.11	1.27	1.38
170.0	47.45	45.97	44.53	1.84	2.00	2.18	1.12	1.29	1.40
174.0	28.89	27.93	27.00	2.71	2.94	3.19	1.54	1.75	1.92
178.0	15.00	14.45	13.90	5.31	5.76	6.31	3.00	3.40	3.76
180.0	9.98	9.65	9.35	8.71	9.40	10.22	4.92	5.48	5.96
182.0	6.59	6.50	6.42	14.90	15.31	15.52	7.89	8.42	8.75
188.0	3.07	3.16	3.26	13.15	12.84	12.52	10.86	10.73	10.52
190.0	2.65	2.74	2.82	13.01	12.78	12.57	10.96	10.86	10.71
200.0	1.46	1.53	1.59	18.19	17.82	17.55	14.03	14.01	13.95
210.0	0.96	1.01	1.05	27.91	27.50	26.85	17.48	17.67	17.75
230.0	0.56	0.60	0.64	25.92	26.80	28.33	20.35	20.69	21.15
250.0	0.42	0.46	0.49	23.50	23.14	23.39	21.20	20.96	21.09
300.0	0.26	0.31	0.34	23.52	21.80	20.75	22.68	21.27	20.31
400.0	0.18	0.23	0.27	23.79	21.88	20.50	23.76	21.76	20.42
500.0	0.16	0.21	0.26	23.45	21.71	19.98	23.35	21.67	19.93
600.0	0.13	0.20	0.25	22.71	21.22	19.48	22.70	21.19	19.41
700.0	0.12	0.19	0.24	22.00	20.61	18.90	21.94	20.57	18.86
800.0	0.13	0.21	0.26	21.33	19.95	18.39	21.21	19.89	18.36
900.0	0.15	0.25	0.31	20.67	19.23	17.92	20.43	19.15	17.91
1000.0	0.21	0.32	0.39	19.75	18.55	17.54	19.52	18.49	17.54

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
1.0	1.26	1.21	1.23	230.0	2.86	2.81	2.77
10.0	1.21	1.19	1.18	240.0	2.23	2.18	2.15
20.0	1.25	1.22	1.21	250.0	1.78	1.74	1.72
30.0	1.31	1.30	1.28	260.0	1.48	1.45	1.42
40.0	1.42	1.42	1.39	270.0	1.26	1.23	1.20
50.0	1.58	1.55	1.54	280.0	1.08	1.05	1.03
60.0	1.81	1.77	1.77	290.0	0.94	0.92	0.91
61.0	1.83	1.81	1.80	300.0	0.85	0.84	0.81
62.0	1.83	1.83	1.83	310.0	0.76	0.72	0.70
63.0	1.87	1.87	1.87	320.0	0.68	0.67	0.65
64.0	1.93	1.91	1.90	330.0	0.64	0.62	0.59
65.0	1.94	1.92	1.91	340.0	0.58	0.57	0.54
66.0	1.98	1.97	1.95	350.0	0.55	0.53	0.51
67.0	2.02	1.99	1.99	360.0	0.51	0.49	0.46
68.0	2.06	2.04	2.04	370.0	0.48	0.45	0.44
69.0	2.07	2.09	2.07	380.0	0.45	0.45	0.42
70.0	2.12	2.11	2.10	390.0	0.44	0.42	0.40
71.0	2.16	2.16	2.13	400.0	0.41	0.39	0.39
72.0	2.20	2.19	2.17	410.0	0.38	0.37	0.35
73.0	2.23	2.23	2.21	420.0	0.37	0.35	0.34
74.0	2.28	2.28	2.27	430.0	0.35	0.34	0.32
75.0	2.33	2.33	2.32	440.0	0.32	0.33	0.30
76.0	2.37	2.38	2.37	450.0	0.33	0.32	0.30
77.0	2.44	2.44	2.44	460.0	0.31	0.29	0.28
78.0	2.50	2.48	2.49	464.0	0.32	0.30	0.27
79.0	2.55	2.55	2.55	466.0	0.33	0.29	0.28
80.0	2.60	2.59	2.59	468.0	0.32	0.29	0.28
81.0	2.65	2.67	2.66	470.0	0.31	0.29	0.28
82.0	2.71	2.72	2.73	472.0	0.31	0.30	0.27
83.0	2.78	2.79	2.79	474.0	0.31	0.29	0.27
84.0	2.86	2.85	2.85	476.0	0.33	0.29	0.29
85.0	2.94	2.93	2.94	478.0	0.33	0.30	0.29
86.0	2.98	3.00	3.00	480.0	0.31	0.29	0.28
87.0	3.09	3.10	3.10	482.0	0.31	0.30	0.27
88.0	3.16	3.17	3.19	484.0	0.31	0.29	0.27
89.0	3.27	3.28	3.29	486.0	0.30	0.28	0.28
90.0	3.36	3.36	3.37	488.0	0.31	0.29	0.28
91.0	3.46	3.46	3.48	490.0	0.30	0.28	0.26
92.0	3.58	3.57	3.58	492.0	0.31	0.28	0.25
93.0	3.67	3.68	3.70	494.0	0.29	0.28	0.25
94.0	3.78	3.80	3.80	496.0	0.28	0.27	0.25
95.0	3.93	3.93	3.94	498.0	0.28	0.27	0.24
96.0	4.03	4.05	4.06	500.0	0.28	0.26	0.25
97.0	4.18	4.19	4.21	550.0	0.26	0.24	0.22
98.0	4.31	4.32	4.34	575.0	0.25	0.23	0.21
99.0	4.46	4.48	4.50	600.0	0.24	0.22	0.20
100.0	4.64	4.66	4.68	625.0	0.23	0.22	0.20
101.0	4.79	4.83	4.85	650.0	0.22	0.21	0.19
102.0	4.98	5.01	5.05	675.0	0.21	0.19	0.18
105.0	5.62	5.65	5.70	700.0	0.22	0.20	0.19
106.0	5.86	5.90	5.95	750.0	0.21	0.20	0.18
108.0	6.40	6.47	6.54	800.0	0.21	0.19	0.18
110.0	7.05	7.11	7.19	850.0	0.20	0.18	0.16
111.0	7.42	7.50	7.56	900.0	0.19	0.16	0.15
113.0	8.25	8.33	8.44	950.0	0.18	0.16	0.14
115.0	9.27	9.38	9.50	1000.0	0.17	0.15	0.13