

Coaxial Band Stop Filter

ZX75BS-140-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	0.00	0.01	0.02	56.54	53.82	51.44	56.74	53.87	51.58
10.0	0.02	0.03	0.04	42.22	38.82	36.60	42.34	38.90	36.66
20.0	0.03	0.04	0.06	36.37	33.51	31.38	36.51	33.63	31.43
40.0	0.05	0.07	0.08	29.16	27.90	26.63	29.44	28.15	26.85
50.0	0.07	0.09	0.11	26.49	26.05	25.47	26.80	26.36	25.79
60.0	0.10	0.13	0.14	24.42	24.72	24.95	24.73	25.11	25.41
70.0	0.14	0.16	0.18	22.98	24.02	25.22	23.35	24.53	25.92
75.0	0.17	0.19	0.21	22.63	24.06	25.74	23.05	24.66	26.71
80.0	0.20	0.23	0.25	22.67	24.51	26.79	23.15	25.26	28.16
85.0	0.25	0.28	0.31	23.35	25.76	28.88	23.97	26.79	31.02
90.0	0.31	0.36	0.40	25.30	28.82	34.21	26.25	30.56	39.04
91.0	0.33	0.38	0.43	25.93	29.83	36.44	27.04	31.97	43.21
95.0	0.43	0.49	0.55	28.82	33.93	40.30	31.82	38.79	34.69
96.0	0.46	0.53	0.60	28.96	32.86	34.99	32.48	35.46	31.45
100.0	0.68	0.77	0.86	23.10	23.42	23.47	24.07	23.26	22.15
105.0	1.40	1.56	1.74	13.56	13.55	13.52	13.23	12.91	12.55
108.0	2.73	3.01	3.32	8.52	8.47	8.39	7.80	7.62	7.38
109.0	3.53	3.88	4.25	7.06	7.02	6.94	6.27	6.13	5.95
110.0	4.63	5.04	5.49	5.79	5.76	5.72	4.92	4.84	4.72
112.0	7.83	8.35	8.93	3.88	3.92	3.95	2.96	2.98	2.97
113.0	9.95	10.51	11.14	3.26	3.33	3.38	2.32	2.37	2.40
115.0	15.17	15.78	16.50	2.47	2.57	2.66	1.55	1.65	1.72
120.0	34.73	35.48	36.31	1.71	1.84	1.94	0.91	1.02	1.11
123.0	45.96	45.49	45.17	1.49	1.62	1.73	0.77	0.87	0.96
125.0	45.75	45.69	45.78	1.37	1.50	1.61	0.71	0.80	0.90
126.0	46.98	47.08	47.24	1.32	1.44	1.56	0.68	0.78	0.86
127.3	49.74	50.07	50.13	1.26	1.39	1.51	0.65	0.75	0.84
127.8	51.29	51.46	51.68	1.23	1.37	1.48	0.64	0.74	0.83
128.0	52.05	52.27	52.35	1.22	1.35	1.48	0.64	0.73	0.82
130.0	55.89	55.26	54.44	1.15	1.29	1.40	0.61	0.70	0.78
132.0	52.15	51.68	51.25	1.09	1.23	1.35	0.57	0.67	0.75
134.0	50.94	50.97	50.51	1.05	1.18	1.30	0.56	0.65	0.72
136.0	52.50	52.30	52.08	1.03	1.16	1.28	0.53	0.62	0.69
138.0	55.13	54.81	55.02	1.05	1.19	1.31	0.53	0.62	0.69
140.0	57.82	56.70	56.86	1.18	1.30	1.43	0.54	0.62	0.70
142.0	54.92	55.19	56.30	1.11	1.21	1.31	0.55	0.63	0.71
144.0	60.17	60.56	61.10	0.96	1.09	1.20	0.57	0.65	0.72
145.0	61.86	61.78	63.10	0.94	1.06	1.18	0.58	0.67	0.73
146.0	62.70	61.69	61.95	0.94	1.07	1.18	0.61	0.69	0.76
148.0	59.93	59.69	59.48	0.97	1.10	1.21	0.64	0.73	0.80
150.0	57.98	57.54	56.33	1.02	1.15	1.27	0.71	0.79	0.87
152.0	51.79	51.00	49.70	1.11	1.25	1.36	0.79	0.88	0.96
152.8	48.36	47.53	46.16	1.15	1.29	1.40	0.83	0.92	1.00
155.0	37.85	37.19	36.28	1.34	1.48	1.60	1.00	1.09	1.17
157.0	30.26	29.74	29.03	1.58	1.72	1.86	1.22	1.31	1.42
160.0	20.75	20.39	19.89	2.24	2.42	2.61	1.78	1.90	2.05
162.0	15.37	15.09	14.72	3.09	3.32	3.59	2.54	2.70	2.90
163.0	12.97	12.73	12.41	3.76	4.03	4.36	3.13	3.32	3.56
165.0	8.85	8.71	8.52	5.92	6.30	6.80	5.00	5.28	5.63
168.0	4.86	4.86	4.85	12.46	13.16	13.96	10.30	10.62	10.98
170.0	3.51	3.56	3.61	19.10	19.36	19.24	14.54	14.48	14.30
180.0	1.58	1.65	1.73	15.77	15.44	14.98	14.70	14.38	13.94
190.0	1.02	1.06	1.11	20.23	20.10	19.65	18.08	17.99	17.61
200.0	0.73	0.77	0.81	29.08	29.13	28.72	22.21	22.30	22.06
210.0	0.58	0.61	0.65	38.35	36.82	35.73	24.17	24.22	24.04
250.0	0.35	0.38	0.40	22.59	22.72	22.92	21.57	21.67	21.80
400.0	0.18	0.23	0.26	22.66	21.16	20.10	22.44	21.02	19.94
600.0	0.15	0.21	0.24	21.49	20.51	19.23	21.44	20.42	19.09
800.0	0.14	0.22	0.26	20.21	19.44	18.18	20.02	19.27	18.00
1000.0	0.20	0.28	0.34	18.77	18.12	17.08	18.53	17.94	16.90

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
1.0	1.77	1.68	1.71	210.0	3.46	3.41	3.37
10.0	1.74	1.70	1.70	220.0	2.65	2.62	2.58
25.0	1.86	1.84	1.82	230.0	2.12	2.10	2.06
35.0	2.03	1.99	1.98	240.0	1.73	1.71	1.67
40.0	2.13	2.12	2.10	250.0	1.47	1.44	1.42
42.0	2.22	2.19	2.17	260.0	1.25	1.24	1.21
44.0	2.26	2.25	2.22	270.0	1.10	1.07	1.05
45.0	2.30	2.28	2.26	280.0	0.99	0.95	0.94
47.0	2.34	2.33	2.31	290.0	0.88	0.85	0.83
49.0	2.44	2.41	2.40	300.0	0.80	0.77	0.74
50.0	2.47	2.45	2.44	310.0	0.73	0.71	0.68
52.0	2.53	2.52	2.51	320.0	0.67	0.65	0.62
53.0	2.58	2.57	2.55	330.0	0.63	0.61	0.57
54.0	2.64	2.60	2.60	340.0	0.58	0.57	0.53
55.0	2.69	2.67	2.67	350.0	0.54	0.53	0.50
56.0	2.76	2.75	2.72	360.0	0.50	0.49	0.46
57.0	2.81	2.79	2.77	370.0	0.47	0.45	0.42
58.0	2.88	2.87	2.85	380.0	0.47	0.44	0.42
59.0	2.93	2.92	2.90	390.0	0.43	0.41	0.39
60.0	2.99	2.97	2.96	400.0	0.41	0.39	0.37
61.0	3.08	3.06	3.04	410.0	0.40	0.37	0.35
62.0	3.15	3.14	3.11	420.0	0.36	0.35	0.32
63.0	3.19	3.20	3.18	430.0	0.38	0.36	0.33
64.0	3.26	3.24	3.23	440.0	0.36	0.34	0.32
65.0	3.35	3.32	3.32	450.0	0.33	0.31	0.30
66.0	3.42	3.39	3.39	458.0	0.34	0.30	0.29
67.0	3.51	3.49	3.49	460.0	0.31	0.29	0.28
68.0	3.60	3.59	3.59	470.0	0.32	0.31	0.29
69.0	3.69	3.69	3.69	472.0	0.31	0.29	0.27
70.0	3.78	3.77	3.77	474.0	0.31	0.30	0.27
71.0	3.88	3.87	3.90	476.0	0.32	0.30	0.27
72.0	4.00	4.00	4.01	478.0	0.32	0.29	0.27
73.0	4.13	4.14	4.14	480.0	0.32	0.30	0.28
74.0	4.25	4.26	4.26	482.0	0.34	0.31	0.28
75.0	4.38	4.40	4.41	484.0	0.31	0.30	0.27
76.0	4.51	4.52	4.53	486.0	0.32	0.29	0.28
77.0	4.67	4.68	4.68	488.0	0.33	0.32	0.28
78.0	4.84	4.83	4.85	490.0	0.33	0.29	0.28
79.0	4.99	5.01	5.03	492.0	0.32	0.29	0.27
80.0	5.18	5.19	5.20	494.0	0.32	0.30	0.28
81.0	5.38	5.40	5.40	496.0	0.31	0.29	0.28
82.0	5.58	5.59	5.61	498.0	0.32	0.28	0.25
83.0	5.80	5.82	5.85	500.0	0.31	0.27	0.26
84.0	6.03	6.06	6.07	550.0	0.28	0.25	0.23
85.0	6.27	6.31	6.34	600.0	0.25	0.23	0.21
86.0	6.54	6.58	6.61	650.0	0.24	0.22	0.20
87.0	6.85	6.90	6.92	700.0	0.23	0.21	0.19
88.0	7.18	7.22	7.25	750.0	0.22	0.20	0.18
89.0	7.52	7.57	7.61	800.0	0.21	0.19	0.17
90.0	7.90	7.94	7.99	850.0	0.21	0.18	0.16
91.0	8.32	8.37	8.43	875.0	0.20	0.18	0.16
92.0	8.77	8.82	8.87	900.0	0.19	0.17	0.14
93.0	9.28	9.33	9.40	925.0	0.21	0.18	0.17
94.0	9.83	9.88	9.95	950.0	0.18	0.16	0.13
95.0	10.46	10.50	10.59	975.0	0.20	0.18	0.16
96.0	11.14	11.22	11.32	1000.0	0.18	0.16	0.14