

Suspended substrate stripline Band Pass Filter

ZBSS-15G-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
10	107.69	102.54	93.87	0.00	0.00	0.00	0.00	0.00	0.00
50	109.90	102.05	107.42	0.00	0.00	0.00	0.00	0.00	0.00
100	109.30	118.94	111.22	0.00	0.00	0.00	0.00	0.00	0.00
200	116.28	121.01	115.83	0.01	0.00	0.01	0.00	0.01	0.01
300	120.61	107.00	117.52	0.01	0.00	0.01	0.01	0.01	0.01
400	109.29	117.04	122.06	0.01	0.00	0.02	0.01	0.01	0.02
500	120.01	119.32	112.42	0.01	0.00	0.02	0.00	0.02	0.03
800	127.11	112.70	116.45	0.01	0.01	0.02	0.03	0.05	0.06
1000	113.04	124.90	112.60	0.01	0.01	0.03	0.06	0.09	0.10
1500	110.36	112.30	114.72	0.00	0.03	0.05	0.14	0.18	0.20
2000	117.20	105.33	105.12	0.01	0.05	0.07	0.19	0.24	0.26
2500	106.40	107.22	106.23	0.02	0.07	0.09	0.20	0.25	0.28
3000	105.10	106.87	107.44	0.04	0.09	0.12	0.16	0.22	0.25
3500	101.65	102.95	103.30	0.06	0.12	0.15	0.13	0.20	0.23
4000	99.25	98.65	101.16	0.08	0.14	0.18	0.16	0.23	0.26
5000	94.22	95.49	94.30	0.13	0.20	0.24	0.37	0.45	0.49
6000	91.38	90.81	90.94	0.17	0.24	0.28	0.45	0.56	0.60
8000	94.25	98.02	94.48	0.19	0.29	0.33	0.53	0.66	0.72
9300	65.94	65.41	65.35	0.21	0.33	0.38	0.73	0.92	0.98
9700	49.46	48.80	48.65	0.26	0.39	0.45	0.78	0.99	1.08
10100	31.88	31.15	30.88	0.44	0.62	0.71	0.93	1.16	1.28
10300	21.83	21.01	20.69	0.75	1.02	1.17	1.17	1.45	1.60
10500	10.24	9.47	9.22	2.32	3.11	3.53	2.46	3.14	3.45
10650	3.28	3.31	3.40	11.51	14.97	16.62	9.88	12.05	12.57
12000	0.99	1.21	1.34	18.62	18.98	18.54	18.40	18.68	18.21
13000	0.83	1.05	1.17	22.37	22.63	22.21	23.53	23.83	23.16
13500	0.81	1.03	1.14	24.37	25.31	26.94	24.73	25.74	27.22
14000	0.79	1.02	1.13	33.74	35.24	40.18	40.81	43.97	55.12
14500	0.82	1.05	1.18	27.32	26.40	25.82	25.84	25.71	25.42
15000	0.93	1.17	1.29	17.74	17.62	17.93	19.49	19.54	20.05
15500	1.03	1.27	1.39	15.36	15.65	16.25	17.42	17.89	18.66
16000	1.07	1.32	1.46	16.21	16.75	17.07	17.35	18.11	18.38
16500	1.11	1.39	1.54	18.52	18.85	18.98	21.74	22.14	22.65
17000	1.26	1.55	1.72	17.10	18.06	17.92	17.77	18.73	18.67
18000	1.68	2.07	2.29	19.03	20.28	20.41	18.72	19.74	19.66
18550	2.47	3.04	3.36	16.49	16.09	16.39	14.10	13.73	13.64
19000	7.54	9.52	10.54	7.27	6.36	6.18	4.39	4.05	3.95
19250	18.18	20.16	21.16	2.07	2.28	2.40	1.90	2.13	2.27
19500	28.10	29.77	30.64	1.19	1.46	1.59	1.57	1.82	1.97
20000	43.55	44.88	45.54	0.79	1.06	1.20	1.41	1.63	1.78
20500	54.35	55.39	55.85	0.74	0.99	1.14	1.24	1.42	1.55
20800	58.32	59.09	59.44	0.76	1.00	1.15	1.08	1.25	1.37
21000	60.00	60.62	60.92	0.72	0.97	1.10	0.97	1.13	1.24
21300	61.56	61.95	62.19	0.71	0.95	1.07	0.77	0.93	1.02
21500	62.14	62.41	62.56	0.66	0.89	1.01	0.65	0.81	0.91
21700	62.57	62.75	62.87	0.61	0.85	0.97	0.55	0.71	0.81
22000	63.09	63.12	63.13	0.53	0.77	0.90	0.42	0.59	0.69
22300	63.34	63.36	63.29	0.48	0.72	0.86	0.33	0.51	0.61
22500	63.40	63.39	63.32	0.45	0.69	0.83	0.29	0.47	0.57
22700	63.39	63.34	63.25	0.43	0.67	0.81	0.26	0.44	0.54
23000	63.19	63.20	63.06	0.40	0.64	0.78	0.22	0.41	0.51
23300	62.79	62.79	62.70	0.41	0.65	0.78	0.22	0.40	0.51
23500	62.38	62.41	62.32	0.40	0.64	0.77	0.20	0.39	0.49
23700	61.92	61.94	61.88	0.41	0.66	0.78	0.19	0.38	0.47
24000	61.06	61.14	61.14	0.45	0.70	0.81	0.20	0.38	0.48
24300	59.99	60.08	60.20	0.54	0.78	0.89	0.18	0.37	0.46
24500	59.23	59.38	59.49	0.60	0.84	0.96	0.18	0.37	0.46
25000	57.40	57.63	57.68	0.80	1.07	1.22	0.17	0.35	0.45
25500	56.45	56.71	56.74	0.88	1.20	1.39	0.18	0.35	0.44
26500	57.65	58.05	58.24	0.50	0.76	0.88	0.15	0.32	0.42



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ZBSS-15G-S+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
12000	0.59	0.58	0.58
12150	0.57	0.56	0.56
12300	0.55	0.55	0.55
12450	0.54	0.53	0.54
12600	0.52	0.52	0.52
12750	0.51	0.51	0.51
12900	0.50	0.50	0.50
13050	0.49	0.49	0.49
13200	0.48	0.48	0.48
13350	0.48	0.48	0.48
13500	0.47	0.47	0.47
13650	0.47	0.47	0.47
13800	0.46	0.46	0.47
13950	0.46	0.46	0.46
14100	0.46	0.46	0.46
14250	0.46	0.46	0.46
14400	0.46	0.46	0.46
14550	0.45	0.45	0.45
14700	0.45	0.45	0.45
14850	0.45	0.45	0.45
15000	0.45	0.45	0.45
15150	0.45	0.45	0.45
15300	0.45	0.45	0.45
15450	0.45	0.45	0.46
15600	0.46	0.46	0.46
15750	0.46	0.46	0.46
15900	0.46	0.46	0.47
16050	0.47	0.47	0.47
16200	0.47	0.47	0.48
16350	0.48	0.48	0.48
16500	0.48	0.49	0.49
16650	0.49	0.49	0.49
16800	0.50	0.50	0.50
16950	0.51	0.51	0.51
17100	0.52	0.52	0.52
17250	0.53	0.53	0.53
17400	0.54	0.55	0.55
17550	0.56	0.56	0.57
17700	0.58	0.58	0.59
17850	0.60	0.61	0.61
18000	0.63	0.63	0.64