

Suspended substrate stripline Band Pass Filter

ZBSS-12G-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	103.15	92.81	109.96	0.00	0.00	0.01	0.00	0.00	0.01
50	104.66	107.63	100.95	0.00	0.00	0.01	0.00	0.00	0.00
100	113.87	116.46	110.35	0.00	0.00	0.01	0.00	0.00	0.00
200	121.53	117.06	124.71	0.01	0.00	0.01	0.01	0.00	0.01
300	117.90	113.47	120.56	0.01	0.00	0.01	0.01	0.01	0.01
400	112.03	122.30	114.86	0.01	0.00	0.02	0.00	0.02	0.02
500	117.23	110.15	108.69	0.01	0.01	0.02	0.01	0.03	0.03
600	111.88	117.60	117.58	0.01	0.01	0.02	0.02	0.04	0.05
700	115.86	119.28	111.68	0.01	0.01	0.03	0.03	0.05	0.06
800	115.99	112.53	112.29	0.01	0.02	0.03	0.04	0.07	0.08
900	113.15	116.26	111.34	0.01	0.02	0.04	0.06	0.09	0.11
1000	110.32	109.79	109.89	0.00	0.03	0.04	0.08	0.12	0.13
1500	99.84	101.81	101.57	0.02	0.06	0.08	0.18	0.22	0.24
2000	97.50	97.52	97.69	0.06	0.11	0.13	0.21	0.27	0.29
2500	93.27	94.35	94.33	0.12	0.18	0.20	0.20	0.26	0.29
3000	89.89	89.43	89.71	0.19	0.26	0.29	0.22	0.30	0.33
3300	79.30	78.89	78.97	0.25	0.32	0.36	0.29	0.38	0.42
3600	64.36	63.96	63.80	0.32	0.40	0.45	0.43	0.52	0.57
3800	53.79	53.35	53.18	0.38	0.48	0.53	0.54	0.66	0.71
4000	42.96	42.52	42.35	0.47	0.58	0.64	0.68	0.81	0.87
4200	31.78	31.34	31.16	0.61	0.75	0.83	0.83	0.99	1.06
4400	20.09	19.66	19.49	0.95	1.16	1.27	1.09	1.29	1.39
4550	11.16	10.80	10.68	1.88	2.26	2.46	1.86	2.21	2.37
4750	2.79	2.85	2.92	9.32	10.56	11.08	9.09	10.30	10.80
6000	0.70	0.85	0.92	23.66	24.14	24.20	21.47	21.73	21.74
7000	0.58	0.71	0.77	20.88	21.26	21.19	20.46	20.69	20.63
8000	0.56	0.70	0.75	18.14	18.33	18.82	18.40	18.65	19.05
9000	0.58	0.73	0.78	16.13	16.25	16.73	16.03	16.18	16.68
10000	0.50	0.65	0.73	21.43	21.48	20.64	22.51	22.62	21.79
12000	0.54	0.71	0.79	21.06	21.56	20.93	21.20	21.71	21.01
14000	0.61	0.81	0.91	33.89	32.90	30.07	35.67	33.84	31.31
15000	0.72	0.95	1.05	23.90	23.76	22.86	22.87	22.53	21.77
16000	0.84	1.10	1.22	25.40	25.34	26.21	24.08	23.74	24.72
17000	1.04	1.33	1.48	42.30	34.61	34.34	35.76	31.06	31.64
18000	1.46	1.86	2.04	35.59	39.33	35.24	36.71	36.28	36.05
18650	2.40	3.07	3.40	21.49	19.43	18.48	29.40	28.34	27.36
19000	7.62	9.48	10.24	4.84	4.53	4.56	4.94	4.73	4.70
19300	18.73	20.69	21.47	1.84	2.08	2.24	1.80	2.01	2.12
19550	27.90	29.64	30.39	1.24	1.53	1.66	1.21	1.42	1.54
20000	42.19	43.59	44.21	0.82	1.10	1.22	0.79	0.98	1.08
20500	53.94	54.91	55.29	0.63	0.90	1.01	0.56	0.74	0.84
20800	58.07	58.76	58.96	0.60	0.86	0.97	0.48	0.66	0.75
21000	59.60	60.12	60.22	0.57	0.82	0.93	0.43	0.61	0.71
21300	60.56	60.90	60.93	0.57	0.81	0.92	0.37	0.56	0.63
21500	60.63	60.95	60.96	0.56	0.80	0.89	0.35	0.53	0.61
21700	60.52	60.79	60.81	0.55	0.78	0.86	0.32	0.51	0.59
22000	60.18	60.42	60.44	0.56	0.79	0.86	0.29	0.47	0.56
22300	59.85	60.00	59.97	0.54	0.78	0.84	0.26	0.45	0.53
22500	59.63	59.74	59.72	0.53	0.78	0.83	0.25	0.43	0.52
22700	59.48	59.52	59.49	0.52	0.78	0.82	0.23	0.42	0.50
23000	59.25	59.25	59.10	0.50	0.76	0.81	0.21	0.40	0.48
23300	58.96	58.98	58.80	0.47	0.73	0.81	0.21	0.40	0.47
23500	58.83	58.82	58.59	0.45	0.71	0.79	0.19	0.38	0.46
23700	58.66	58.61	58.35	0.42	0.68	0.76	0.17	0.36	0.44
24000	58.33	58.34	58.05	0.40	0.65	0.76	0.17	0.36	0.44
24300	57.94	57.93	57.73	0.36	0.62	0.73	0.16	0.35	0.42
24500	57.61	57.60	57.46	0.35	0.61	0.72	0.16	0.35	0.42
25000	56.73	56.78	56.77	0.38	0.64	0.74	0.14	0.33	0.41
25500	55.69	55.89	55.95	0.47	0.72	0.82	0.15	0.33	0.41
26500	54.12	54.50	54.49	0.63	0.88	1.01	0.16	0.34	0.42



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Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
6000	0.55	0.55	0.55
6300	0.50	0.50	0.50
6600	0.47	0.47	0.47
6900	0.44	0.44	0.44
7200	0.42	0.42	0.42
7500	0.40	0.40	0.40
7800	0.38	0.38	0.38
8100	0.38	0.37	0.38
8400	0.37	0.37	0.37
8700	0.36	0.36	0.36
9000	0.35	0.35	0.35
9300	0.34	0.34	0.34
9600	0.34	0.34	0.34
9900	0.34	0.34	0.34
10200	0.34	0.34	0.34
10500	0.34	0.34	0.34
10800	0.33	0.33	0.33
11100	0.33	0.33	0.33
11400	0.33	0.33	0.33
11700	0.33	0.33	0.33
12000	0.33	0.33	0.33
12300	0.33	0.33	0.34
12600	0.34	0.34	0.34
12900	0.34	0.34	0.34
13200	0.34	0.34	0.34
13500	0.34	0.34	0.35
13800	0.35	0.35	0.35
14100	0.35	0.35	0.35
14400	0.36	0.36	0.36
14700	0.36	0.37	0.37
15000	0.37	0.37	0.37
15300	0.38	0.38	0.38
15600	0.39	0.39	0.39
15900	0.40	0.40	0.40
16200	0.41	0.41	0.42
16500	0.43	0.43	0.43
16800	0.44	0.45	0.45
17100	0.47	0.47	0.47
17400	0.49	0.50	0.50
17700	0.53	0.53	0.54
18000	0.58	0.59	0.59