

Suspended substrate stripline Band Pass Filter

ZBSS-A10G-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	102.33	99.15	98.35	0.00	0.00	0.00	0.00	0.00	0.00
50	115.69	109.20	102.10	0.00	0.00	0.00	0.02	0.01	0.02
100	111.96	111.88	110.70	0.01	0.01	0.01	0.02	0.01	0.01
150	104.02	113.87	110.69	0.03	0.02	0.02	0.03	0.02	0.02
200	113.11	114.92	107.20	0.06	0.03	0.04	0.06	0.03	0.04
250	117.63	126.52	113.51	0.08	0.05	0.05	0.05	0.02	0.03
300	108.13	105.99	115.13	0.10	0.06	0.07	0.09	0.04	0.06
350	103.23	106.92	114.34	0.11	0.07	0.08	0.07	0.02	0.04
400	108.22	112.10	131.23	0.11	0.06	0.08	0.07	0.02	0.03
450	111.02	117.63	115.54	0.11	0.05	0.07	0.06	0.00	0.02
500	109.56	111.76	122.49	0.09	0.04	0.06	0.02	0.03	0.02
550	117.05	118.64	108.52	0.07	0.01	0.04	0.02	0.04	0.03
600	128.32	120.13	118.39	0.05	0.01	0.01	0.03	0.08	0.08
650	122.65	111.32	105.94	0.03	0.03	0.02	0.05	0.09	0.10
700	117.63	111.52	114.50	0.01	0.05	0.04	0.07	0.12	0.13
800	119.11	109.49	108.46	0.02	0.07	0.07	0.11	0.16	0.17
1000	101.01	99.22	98.40	0.04	0.09	0.10	0.15	0.22	0.23
1100	85.40	85.01	85.25	0.06	0.12	0.13	0.18	0.26	0.26
1300	59.55	59.15	58.91	0.18	0.26	0.28	0.31	0.40	0.41
1400	46.60	46.16	45.92	0.29	0.38	0.41	0.38	0.47	0.50
1500	32.73	32.21	31.94	0.48	0.60	0.64	0.52	0.63	0.68
1550	25.03	24.43	24.15	0.68	0.84	0.89	0.69	0.83	0.90
1600	16.40	15.73	15.44	1.23	1.50	1.63	1.22	1.48	1.62
1700	2.73	2.95	3.08	13.82	12.72	12.26	14.00	12.77	12.22
2000	0.99	1.14	1.20	20.12	20.23	20.31	19.24	19.38	19.49
3000	0.45	0.57	0.60	22.13	22.15	22.24	21.12	21.22	21.16
4000	0.40	0.52	0.55	17.64	17.78	17.66	17.09	17.31	17.21
5000	0.43	0.55	0.58	14.55	14.76	14.60	14.67	14.91	14.76
6000	0.56	0.69	0.72	11.34	11.55	11.46	11.40	11.61	11.53
8000	0.31	0.47	0.50	17.95	18.22	17.96	19.14	19.14	18.97
10000	0.47	0.65	0.68	14.18	14.19	14.56	14.36	14.48	14.73
12000	0.56	0.75	0.81	13.67	14.04	14.07	13.81	14.30	14.31
13000	0.59	0.82	0.88	14.51	14.20	14.31	15.59	15.39	15.60
14000	0.55	0.77	0.85	21.97	22.14	22.35	22.03	22.18	22.19
16000	0.95	1.25	1.36	14.03	13.74	13.74	16.38	16.47	16.63
18000	1.52	1.97	2.16	18.24	17.46	16.96	18.32	17.83	17.19
18650	2.30	2.98	3.26	22.16	18.31	17.35	23.28	19.89	18.58
19100	6.99	9.44	10.28	10.79	8.40	7.96	4.73	3.99	3.85
19350	18.77	21.63	22.44	2.38	2.43	2.50	1.40	1.52	1.58
19550	27.84	30.27	30.94	1.43	1.67	1.79	0.88	1.06	1.13
19800	37.17	39.16	39.70	1.04	1.36	1.49	0.65	0.83	0.91
20000	43.47	45.15	45.61	0.92	1.27	1.42	0.50	0.69	0.76
20200	48.91	50.28	50.70	0.99	1.41	1.57	0.37	0.58	0.64
20500	55.54	56.56	57.01	1.38	1.91	2.11	0.28	0.47	0.54
20800	60.64	61.44	61.97	1.96	2.43	2.60	0.22	0.43	0.49
21000	63.43	64.01	64.54	2.08	2.45	2.58	0.18	0.40	0.46
21200	65.61	65.80	66.39	1.86	2.18	2.29	0.09	0.32	0.37
21500	67.81	67.35	67.81	1.41	1.76	1.89	0.02	0.25	0.30
21800	67.93	66.93	67.31	1.37	1.93	2.16	0.04	0.27	0.31
22000	66.65	65.47	65.81	2.19	3.43	4.07	0.03	0.25	0.30
22200	65.00	64.85	65.67	7.85	11.87	13.64	0.02	0.23	0.28
22400	68.30	69.19	70.30	5.67	4.93	4.74	0.01	0.20	0.25
22600	74.12	74.68	75.66	2.18	2.41	2.49	0.03	0.19	0.24
22800	78.74	79.38	79.94	1.45	1.86	2.02	0.01	0.20	0.25
23000	82.44	82.87	83.34	1.70	2.80	3.26	0.01	0.20	0.25
23500	94.09	89.57	89.75	2.10	2.95	3.28	0.04	0.16	0.21
24000	75.98	74.67	74.70	7.23	5.16	5.41	0.06	0.14	0.19
24500	74.40	77.27	78.93	6.49	5.34	5.12	0.10	0.11	0.16
25000	84.70	86.32	87.55	6.27	5.24	4.91	0.14	0.09	0.14
26500	81.50	78.41	79.33	10.79	13.20	12.62	0.20	0.04	0.10

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Typical Performance Data

FREQ.	GROUP DELAY		
(MHz)	(nsec)		
	@-40°C	@+25°C	@+85°C
2000	1.73	1.71	1.70
2200	1.21	1.20	1.20
2300	1.07	1.07	1.07
2400	0.97	0.97	0.97
2700	0.78	0.78	0.78
3000	0.67	0.67	0.67
3300	0.59	0.59	0.59
3600	0.54	0.54	0.54
3900	0.51	0.50	0.50
4200	0.47	0.47	0.47
4500	0.45	0.45	0.45
4800	0.43	0.43	0.43
5100	0.42	0.42	0.42
5400	0.41	0.41	0.41
5700	0.40	0.40	0.40
6000	0.39	0.39	0.39
6300	0.38	0.38	0.38
6600	0.38	0.38	0.38
6900	0.38	0.38	0.38
7200	0.38	0.38	0.38
7500	0.37	0.37	0.37
7800	0.37	0.37	0.37
8100	0.37	0.37	0.37
8400	0.37	0.37	0.37
8700	0.37	0.37	0.37
9000	0.37	0.37	0.37
9300	0.37	0.37	0.37
9600	0.37	0.37	0.37
9900	0.37	0.37	0.37
10200	0.37	0.37	0.37
10500	0.38	0.38	0.38
10800	0.38	0.38	0.38
11100	0.38	0.38	0.38
11500	0.38	0.38	0.38
12000	0.38	0.38	0.39
13000	0.40	0.40	0.40
14000	0.42	0.42	0.42
15000	0.44	0.44	0.44
16000	0.48	0.48	0.48
17000	0.54	0.55	0.55
18000	0.66	0.67	0.67