

Suspended substrate stripline Band Pass Filter

ZBSS-3G-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	110.39	109.84	101.74	0.02	0.02	0.02	0.01	0.01	0.01
50	89.28	92.29	95.69	0.02	0.02	0.02	0.02	0.02	0.01
100	113.80	119.48	111.73	0.05	0.05	0.05	0.03	0.02	0.02
150	116.37	117.74	118.31	0.04	0.04	0.03	0.01	0.01	0.01
200	116.20	113.19	116.76	0.06	0.04	0.04	0.03	0.06	0.06
250	123.91	111.37	120.25	0.03	0.01	0.01	0.06	0.09	0.10
300	103.67	103.17	103.50	0.04	0.02	0.02	0.12	0.17	0.17
350	104.10	106.46	105.29	0.03	0.00	0.00	0.17	0.21	0.22
400	114.37	107.70	118.48	0.03	0.01	0.00	0.24	0.29	0.31
500	107.67	115.36	110.57	0.01	0.01	0.02	0.37	0.42	0.45
600	100.08	99.94	97.95	0.01	0.02	0.02	0.46	0.52	0.56
700	103.27	103.78	106.54	0.01	0.04	0.05	0.49	0.56	0.59
800	103.33	105.41	103.65	0.02	0.05	0.06	0.50	0.56	0.59
900	93.02	94.21	95.71	0.04	0.08	0.09	0.47	0.53	0.56
1000	91.91	93.30	92.52	0.06	0.10	0.12	0.44	0.51	0.54
1100	91.18	91.63	90.68	0.10	0.14	0.16	0.45	0.53	0.57
1200	74.00	73.69	73.53	0.15	0.19	0.22	0.51	0.60	0.64
1300	61.76	61.39	61.22	0.20	0.26	0.29	0.64	0.75	0.80
1450	42.55	42.16	42.00	0.36	0.44	0.48	1.00	1.13	1.22
1500	35.88	35.47	35.30	0.44	0.54	0.59	1.10	1.25	1.34
1550	29.05	28.61	28.44	0.61	0.73	0.79	1.28	1.44	1.54
1600	21.82	21.35	21.18	0.84	1.00	1.09	1.41	1.61	1.73
1650	13.94	13.47	13.32	1.56	1.84	2.01	2.00	2.32	2.50
1750	2.41	2.59	2.74	17.17	18.33	18.60	20.52	22.60	22.64
2000	1.21	1.38	1.47	18.54	18.56	18.77	17.34	17.26	17.35
2200	0.96	1.10	1.18	36.92	35.35	34.57	34.92	35.29	35.76
2400	0.89	1.03	1.10	22.34	22.57	22.63	20.56	20.58	20.67
2600	0.84	0.97	1.04	27.49	27.37	27.37	24.28	24.25	24.40
2800	0.81	0.94	1.02	24.85	24.61	24.79	26.56	26.53	26.61
3000	0.87	1.00	1.07	18.64	18.75	18.80	20.78	20.82	20.87
3200	0.91	1.04	1.11	17.18	17.46	17.53	18.47	18.63	18.72
3400	0.87	1.01	1.08	22.79	23.23	23.53	22.05	22.29	22.42
3600	0.90	1.04	1.12	30.79	30.85	30.25	30.58	30.61	30.55
3800	0.97	1.13	1.21	25.03	25.55	25.30	32.29	33.82	34.34
4000	1.08	1.24	1.33	23.81	24.11	24.01	29.41	29.92	29.93
4400	3.25	3.70	3.88	7.07	6.77	6.82	6.26	5.99	5.97
4600	9.88	10.53	10.71	2.06	2.13	2.20	1.58	1.63	1.67
4850	19.45	20.07	20.19	1.00	1.14	1.21	0.61	0.70	0.74
5150	29.42	29.98	30.07	0.73	0.89	0.96	0.37	0.46	0.49
5300	33.89	34.42	34.49	0.72	0.88	0.96	0.29	0.38	0.41
5500	39.60	40.11	40.18	0.73	0.88	0.97	0.22	0.32	0.35
6000	52.36	52.89	52.99	0.62	0.76	0.80	0.15	0.25	0.26
6500	63.06	63.42	63.50	0.46	0.58	0.62	0.13	0.23	0.24
7000	72.17	72.58	72.57	0.39	0.51	0.55	0.12	0.20	0.22
7600	79.36	79.41	79.57	0.47	0.61	0.66	0.09	0.18	0.20
8000	87.17	85.52	89.31	0.48	0.63	0.66	0.09	0.18	0.21
9000	106.47	93.30	93.73	0.27	0.40	0.44	0.07	0.17	0.19
10000	100.82	93.86	94.41	0.34	0.49	0.54	0.06	0.18	0.19
11000	101.37	88.02	93.40	0.44	0.59	0.63	0.06	0.19	0.20
12000	90.23	93.94	91.78	0.31	0.46	0.50	0.09	0.22	0.23
13000	105.91	95.07	94.96	0.41	0.58	0.63	0.05	0.17	0.19
14000	89.11	90.03	90.48	0.48	0.67	0.71	0.01	0.13	0.15
15000	96.96	98.50	94.36	0.32	0.51	0.54	0.01	0.15	0.16
16000	95.09	94.34	92.04	0.48	0.72	0.79	0.03	0.19	0.21
17000	94.32	97.20	99.02	0.57	0.78	0.83	0.02	0.19	0.21
18000	93.30	97.74	96.07	0.40	0.60	0.67	0.02	0.20	0.22
19000	88.73	100.53	89.25	0.89	1.25	1.37	0.03	0.21	0.23
20000	88.95	107.31	85.06	0.98	1.30	1.39	0.06	0.24	0.27
22000	94.25	90.37	102.65	2.08	2.41	2.54	0.11	0.32	0.35
25000	91.65	91.61	89.74	2.77	3.12	3.20	0.37	0.55	0.56

Suspended substrate stripline Band Pass Filter

ZBSS-3G-S+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
2000	1.98	1.97	1.96
2050	1.82	1.81	1.80
2100	1.69	1.68	1.68
2150	1.59	1.58	1.58
2200	1.51	1.51	1.50
2250	1.44	1.44	1.44
2300	1.39	1.38	1.38
2350	1.33	1.33	1.33
2400	1.29	1.28	1.28
2450	1.24	1.24	1.24
2500	1.21	1.21	1.21
2550	1.18	1.18	1.18
2600	1.15	1.15	1.15
2650	1.13	1.13	1.13
2700	1.11	1.10	1.10
2750	1.09	1.08	1.08
2800	1.07	1.07	1.07
2850	1.05	1.05	1.05
2900	1.04	1.04	1.04
2950	1.02	1.02	1.02
3000	1.01	1.01	1.01
3050	1.00	1.00	1.00
3100	0.98	0.98	0.99
3150	0.98	0.98	0.98
3200	0.97	0.97	0.97
3250	0.96	0.96	0.96
3300	0.96	0.96	0.96
3350	0.96	0.96	0.96
3400	0.95	0.96	0.96
3450	0.95	0.96	0.96
3500	0.95	0.96	0.96
3550	0.96	0.96	0.96
3600	0.96	0.96	0.96
3650	0.96	0.96	0.96
3700	0.96	0.96	0.96
3750	0.97	0.97	0.97
3800	0.97	0.98	0.98
3850	0.98	0.98	0.98
3900	0.99	1.00	1.00
3950	1.00	1.01	1.01
4000	1.02	1.03	1.03