

Suspended substrate stripline

Band Pass Filter

ZBSS-2250-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
1	98.41	104.46	100.56	0.00	0.00	0.00	0.00	0.00	0.00
50	103.46	102.20	99.09	0.00	0.00	0.00	0.00	0.00	0.01
100	106.52	107.73	97.86	0.00	0.00	0.01	0.00	0.01	0.01
150	94.98	102.12	102.49	0.00	0.01	0.01	0.01	0.03	0.03
200	99.59	94.29	96.54	0.00	0.02	0.02	0.03	0.05	0.06
250	96.59	100.47	114.57	0.01	0.02	0.03	0.05	0.07	0.08
300	96.25	99.80	97.47	0.02	0.03	0.04	0.08	0.10	0.11
350	104.80	110.98	101.02	0.03	0.04	0.05	0.11	0.13	0.14
400	105.58	102.19	99.61	0.04	0.06	0.07	0.14	0.16	0.18
450	103.98	106.91	92.85	0.04	0.06	0.08	0.16	0.19	0.21
500	101.45	101.92	105.99	0.05	0.08	0.09	0.18	0.22	0.24
600	106.85	104.86	96.76	0.07	0.10	0.12	0.23	0.27	0.30
700	101.72	109.12	98.33	0.10	0.14	0.15	0.24	0.29	0.32
800	106.93	106.38	98.13	0.13	0.17	0.19	0.24	0.29	0.33
900	100.38	101.79	104.20	0.17	0.22	0.24	0.26	0.32	0.35
1000	84.36	83.43	84.10	0.23	0.27	0.30	0.27	0.34	0.38
1170	56.70	56.33	56.09	0.35	0.41	0.45	0.39	0.47	0.52
1200	51.81	51.36	51.14	0.38	0.44	0.48	0.43	0.52	0.57
1250	43.47	43.01	42.71	0.45	0.52	0.57	0.54	0.64	0.69
1300	34.75	34.26	33.94	0.55	0.64	0.71	0.70	0.81	0.87
1330	29.29	28.77	28.41	0.65	0.75	0.83	0.84	0.96	1.04
1380	19.69	19.10	18.69	1.00	1.16	1.28	1.25	1.43	1.55
1430	9.72	9.17	8.81	2.51	2.95	3.26	2.73	3.20	3.55
1480	3.06	3.01	3.00	11.32	12.77	13.58	11.08	12.68	13.95
1600	1.33	1.44	1.52	23.64	24.44	24.16	24.67	24.83	24.72
1800	0.92	1.03	1.09	30.62	29.79	30.45	31.21	30.33	30.07
1950	0.80	0.90	0.97	34.53	33.75	31.20	28.08	27.69	26.32
2100	0.79	0.89	0.96	20.00	19.83	19.99	18.82	18.76	18.94
2250	0.78	0.87	0.93	18.31	19.15	20.04	17.62	18.31	19.06
2400	0.72	0.83	0.90	24.54	25.47	26.13	23.69	24.12	24.45
2600	0.82	0.94	1.01	20.60	20.47	20.72	19.55	19.44	19.68
2700	0.88	1.01	1.09	22.19	24.20	25.28	20.37	21.41	21.75
2800	1.03	1.19	1.29	21.19	21.05	20.96	19.86	19.61	19.37
2900	1.35	1.56	1.69	18.74	18.77	18.63	20.01	20.64	20.83
3000	3.10	3.76	4.11	9.90	8.89	8.50	9.52	8.54	8.22
3070	10.41	11.66	12.23	3.01	2.97	2.99	2.11	2.06	2.08
3130	21.02	22.52	23.18	1.75	1.88	1.97	0.90	0.98	1.03
3170	30.56	32.46	33.25	1.42	1.57	1.67	0.67	0.75	0.80
3200	41.15	42.93	43.26	1.25	1.40	1.50	0.57	0.66	0.70
3250	40.04	39.56	39.59	1.03	1.18	1.28	0.47	0.55	0.59
3400	42.89	43.62	44.17	0.65	0.77	0.84	0.30	0.38	0.43
3500	56.14	58.06	59.05	0.53	0.64	0.69	0.24	0.32	0.37
3600	50.71	49.84	49.34	0.47	0.57	0.62	0.19	0.27	0.32
3700	45.02	44.74	44.58	0.47	0.57	0.61	0.17	0.25	0.31
3800	42.25	42.10	42.03	0.53	0.64	0.70	0.15	0.23	0.29
3900	40.16	40.17	40.11	0.72	0.86	0.95	0.14	0.23	0.30
4000	38.48	38.64	38.65	1.20	1.39	1.52	0.14	0.23	0.30
4100	38.64	38.96	39.06	1.60	1.78	1.92	0.11	0.21	0.29
4200	41.87	42.13	42.32	1.11	1.25	1.32	0.10	0.20	0.27
4300	46.19	46.39	46.52	0.66	0.77	0.82	0.08	0.18	0.26
4400	50.27	50.52	50.59	0.45	0.55	0.59	0.08	0.18	0.26
4500	54.28	54.40	54.45	0.33	0.42	0.46	0.09	0.19	0.27
4600	58.03	58.09	58.21	0.26	0.35	0.39	0.09	0.21	0.29
4700	61.57	61.45	61.81	0.22	0.31	0.35	0.09	0.21	0.30
4800	64.92	65.24	65.63	0.18	0.28	0.32	0.07	0.19	0.28
5000	73.02	72.82	73.30	0.14	0.24	0.29	0.05	0.16	0.26
5200	81.45	81.54	84.71	0.11	0.22	0.28	0.10	0.22	0.31
5500	95.78	98.85	93.51	0.10	0.22	0.30	0.05	0.17	0.29
5800	85.28	83.10	83.17	0.11	0.26	0.35	0.09	0.22	0.32
6000	74.79	74.95	73.99	0.11	0.25	0.34	0.10	0.24	0.35

Suspended substrate stripline Band Pass Filter

ZBSS-2250-S+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
1600	2.77	2.73	2.71
1620	2.62	2.58	2.56
1640	2.49	2.45	2.43
1670	2.32	2.29	2.28
1700	2.19	2.16	2.15
1730	2.08	2.05	2.04
1760	1.98	1.96	1.94
1800	1.87	1.85	1.84
1830	1.80	1.78	1.77
1860	1.74	1.72	1.71
1880	1.70	1.68	1.68
1900	1.67	1.65	1.64
1920	1.64	1.62	1.61
1940	1.61	1.59	1.58
1960	1.58	1.56	1.55
1980	1.55	1.54	1.53
2000	1.53	1.51	1.50
2020	1.50	1.49	1.48
2040	1.48	1.47	1.46
2060	1.46	1.45	1.44
2080	1.44	1.43	1.42
2100	1.42	1.41	1.40
2120	1.40	1.39	1.38
2140	1.39	1.38	1.37
2160	1.37	1.36	1.36
2180	1.36	1.35	1.34
2200	1.35	1.34	1.33
2210	1.34	1.33	1.33
2230	1.33	1.32	1.32
2250	1.33	1.32	1.31
2270	1.32	1.31	1.31
2300	1.31	1.30	1.30
2320	1.31	1.30	1.29
2350	1.30	1.30	1.29
2370	1.30	1.29	1.29
2400	1.30	1.29	1.29
2420	1.30	1.29	1.29
2450	1.30	1.29	1.29
2480	1.31	1.29	1.29
2500	1.31	1.30	1.29
2520	1.31	1.30	1.29
2550	1.32	1.31	1.30
2580	1.33	1.32	1.32
2600	1.34	1.33	1.33
2620	1.35	1.34	1.34
2650	1.37	1.37	1.37
2670	1.39	1.39	1.39
2690	1.41	1.41	1.41
2710	1.44	1.44	1.44
2730	1.47	1.47	1.47
2750	1.50	1.50	1.50
2770	1.53	1.54	1.54
2800	1.59	1.60	1.60
2810	1.62	1.62	1.63
2830	1.67	1.68	1.69
2840	1.70	1.71	1.72
2860	1.78	1.79	1.80
2880	1.87	1.89	1.90
2890	1.92	1.95	1.97
2900	1.99	2.02	2.04