

# Surface mount Bandpass Filter

# CBP6-507BG+

## 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	96.59	108.12	104.61	0.05	0.05	0.05	0.05	0.05	0.05
5	104.36	120.07	94.94	0.05	0.05	0.05	0.04	0.04	0.04
50	97.07	98.29	95.67	0.03	0.03	0.03	0.04	0.04	0.05
100	102.11	96.14	109.11	0.02	0.02	0.02	0.06	0.08	0.09
200	109.13	98.68	94.78	0.00	0.02	0.02	0.23	0.28	0.30
300	99.90	90.19	90.17	0.00	0.02	0.03	0.53	0.62	0.67
310	96.88	95.39	94.87	0.01	0.02	0.03	0.57	0.66	0.71
320	95.02	94.87	94.72	0.01	0.02	0.03	0.60	0.70	0.76
350	87.22	87.37	86.63	0.01	0.03	0.03	0.71	0.83	0.90
400	86.28	86.90	88.01	0.01	0.03	0.04	0.89	1.05	1.16
410	85.94	87.35	88.97	0.01	0.03	0.04	0.93	1.10	1.21
420	86.38	87.82	87.20	0.01	0.03	0.04	0.97	1.14	1.26
430	86.90	87.65	87.28	0.02	0.04	0.05	1.01	1.19	1.31
440	88.77	88.46	86.29	0.02	0.05	0.05	1.05	1.24	1.37
450	89.66	92.80	89.22	0.03	0.05	0.06	1.10	1.29	1.43
460	100.30	99.24	94.09	0.04	0.06	0.07	1.14	1.34	1.49
470	75.93	75.49	76.22	0.05	0.08	0.09	1.20	1.40	1.56
486	52.04	51.65	51.62	0.15	0.19	0.21	1.34	1.57	1.74
492	39.24	38.68	38.65	0.29	0.36	0.40	1.48	1.73	1.92
498	19.63	18.61	18.62	1.13	1.43	1.55	2.12	2.54	2.80
500	10.29	9.37	9.51	3.33	4.48	4.80	3.89	4.98	5.37
502	3.94	4.13	4.44	19.92	21.83	21.16	15.06	16.75	16.71
503	3.30	3.62	3.91	18.35	17.72	17.78	17.38	17.32	17.50
504	3.04	3.36	3.64	17.94	19.48	19.86	17.30	18.18	18.54
505	2.86	3.20	3.47	23.21	26.94	28.43	19.71	20.93	21.31
506	2.78	3.15	3.41	27.25	25.82	26.52	22.50	23.16	23.45
507	2.77	3.16	3.44	22.48	21.65	21.79	23.15	23.07	23.01
508	2.83	3.26	3.54	20.86	20.81	20.77	21.87	21.34	20.97
509	2.98	3.46	3.77	22.15	23.67	23.56	20.26	19.69	19.15
510	3.31	3.95	4.30	35.80	25.11	24.78	18.30	16.52	15.97
511	4.27	5.30	5.70	13.43	10.80	10.87	11.72	9.92	9.83
512	6.73	8.25	8.66	5.92	4.97	5.11	6.06	5.34	5.47
513	10.70	12.38	12.74	2.80	2.52	2.66	3.39	3.28	3.46
514	15.12	16.72	17.02	1.54	1.49	1.59	2.32	2.42	2.60
515	19.34	20.79	21.05	0.98	1.00	1.08	1.86	2.02	2.20
518	29.89	31.01	31.18	0.41	0.45	0.50	1.42	1.63	1.79
528	51.84	52.52	52.63	0.09	0.13	0.15	1.27	1.47	1.64
530	54.98	55.68	55.74	0.07	0.11	0.13	1.26	1.47	1.64
600	89.93	87.24	91.35	0.01	0.04	0.05	1.33	1.55	1.72
620	85.47	88.01	89.40	0.01	0.04	0.06	1.33	1.54	1.72
640	87.73	88.39	88.26	0.01	0.04	0.06	1.32	1.53	1.70
660	86.58	88.44	87.04	0.01	0.04	0.06	1.30	1.51	1.67
680	91.48	93.41	91.92	0.01	0.04	0.06	1.29	1.49	1.65
700	88.70	98.96	94.02	0.01	0.05	0.06	1.28	1.48	1.64
1000	80.33	78.78	76.72	0.04	0.08	0.10	4.69	5.38	5.92
1050	72.10	71.43	71.15	0.05	0.09	0.11	4.45	4.91	5.27
1100	72.96	72.64	72.47	0.06	0.10	0.12	4.19	4.58	4.97
1150	72.49	72.69	71.79	0.07	0.11	0.13	3.88	4.18	4.50
1200	72.17	72.54	72.33	0.08	0.12	0.14	3.19	3.42	3.64
1250	73.99	76.01	76.98	0.08	0.12	0.14	2.45	2.64	2.78
1300	92.28	90.06	90.35	0.09	0.13	0.15	1.88	2.03	2.14
1350	83.72	84.80	81.67	0.11	0.16	0.19	1.46	1.59	1.68
1400	77.03	74.86	75.23	0.16	0.21	0.25	1.16	1.28	1.36
1450	75.79	74.52	74.84	0.32	0.40	0.46	0.96	1.06	1.13
1500	54.00	54.08	54.14	1.45	1.63	1.77	0.81	0.90	0.97
1550	73.15	75.30	74.62	0.51	0.60	0.66	0.70	0.78	0.84
1600	62.81	62.56	62.96	0.15	0.21	0.24	0.61	0.68	0.73
1700	61.43	61.46	61.90	0.08	0.13	0.15	0.48	0.54	0.59
1800	57.39	56.85	56.01	0.08	0.13	0.16	0.40	0.45	0.49
1900	60.25	59.29	60.30	0.09	0.16	0.19	0.34	0.39	0.42



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## Typical Performance Data

FREQ.  (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
493.0	19.90	21.81	22.12
494.0	26.49	28.77	29.01
495.0	34.02	36.07	36.21
496.0	41.20	42.75	42.83
497.0	48.04	49.18	49.16
498.0	54.61	55.31	55.19
499.0	60.82	61.15	60.96
500.0	66.75	66.75	66.52
501.0	72.35	72.06	71.79
502.0	77.66	77.11	76.77
502.2	82.65	81.86	81.47
502.4	87.25	86.22	85.77
502.6	91.42	90.12	89.61
502.8	94.93	93.29	92.71
503.0	97.48	95.39	94.71
503.2	98.44	95.70	94.97
503.4	97.21	93.99	93.31
503.6	94.83	91.83	91.26
503.8	92.82	90.20	89.73
504.0	91.04	88.81	88.39
504.2	89.47	87.60	87.24
504.4	88.17	86.61	86.30
504.6	87.04	85.75	85.48
504.8	86.12	85.06	84.80
505.0	85.34	84.47	84.25
505.2	84.70	83.98	83.78
505.4	84.19	83.62	83.42
505.6	83.76	83.31	83.14
505.8	83.42	83.11	82.95
506.0	83.18	82.95	82.82
506.2	83.01	82.89	82.76
506.4	82.89	82.90	82.77
506.6	82.87	82.98	82.87
506.8	82.93	83.18	83.06
507.0	83.07	83.45	83.35
507.2	83.29	83.81	83.72
507.4	83.62	84.29	84.20
507.6	84.03	84.88	84.78
507.8	84.56	85.57	85.49
508.0	85.23	86.43	86.35
508.2	86.03	87.44	87.34
508.4	86.96	88.56	88.47
508.6	88.06	89.88	89.75
508.8	89.70	91.61	91.43
509.0	91.66	93.23	92.92
509.2	92.40	93.33	92.95
509.4	91.33	91.76	91.35
509.6	88.91	89.00	88.58
509.8	85.59	85.43	85.04
510.0	81.69	81.33	80.94
511.0	77.37	76.83	76.45