

Surface mount Band Pass Filter

CBP2-3050BN+

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 | 95.83 | 102.44 | 104.98 | 0.06 | 0.06 | 0.07 | 0.06 | 0.07 | 0.07 |
| 5 | 100.36 | 100.02 | 101.05 | 0.06 | 0.06 | 0.07 | 0.06 | 0.07 | 0.07 |
| 10 | 97.98 | 98.90 | 99.38 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 |
| 64 | 84.54 | 84.93 | 84.83 | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 |
| 104 | 81.26 | 81.03 | 81.20 | 0.10 | 0.12 | 0.12 | 0.12 | 0.14 | 0.15 |
| 144 | 77.81 | 77.66 | 77.52 | 0.12 | 0.13 | 0.14 | 0.13 | 0.15 | 0.16 |
| 184 | 75.30 | 75.12 | 75.18 | 0.13 | 0.14 | 0.15 | 0.14 | 0.16 | 0.17 |
| 224 | 73.32 | 73.30 | 73.37 | 0.13 | 0.15 | 0.15 | 0.14 | 0.16 | 0.17 |
| 304 | 70.65 | 70.59 | 70.64 | 0.13 | 0.15 | 0.16 | 0.14 | 0.17 | 0.18 |
| 344 | 69.58 | 69.51 | 69.52 | 0.12 | 0.15 | 0.17 | 0.14 | 0.17 | 0.18 |
| 404 | 68.17 | 68.14 | 68.07 | 0.12 | 0.15 | 0.17 | 0.14 | 0.17 | 0.18 |
| 444 | 67.43 | 67.40 | 67.29 | 0.12 | 0.15 | 0.17 | 0.14 | 0.17 | 0.19 |
| 504 | 66.38 | 66.43 | 66.30 | 0.12 | 0.15 | 0.17 | 0.14 | 0.17 | 0.19 |
| 564 | 65.52 | 65.58 | 65.46 | 0.12 | 0.16 | 0.18 | 0.14 | 0.17 | 0.19 |
| 604 | 65.01 | 65.06 | 64.95 | 0.12 | 0.16 | 0.18 | 0.14 | 0.17 | 0.20 |
| 704 | 64.00 | 63.96 | 63.86 | 0.12 | 0.16 | 0.18 | 0.14 | 0.18 | 0.20 |
| 804 | 62.90 | 62.84 | 62.79 | 0.11 | 0.16 | 0.18 | 0.13 | 0.17 | 0.20 |
| 1004 | 61.28 | 61.26 | 61.22 | 0.10 | 0.15 | 0.18 | 0.12 | 0.17 | 0.19 |
| 1504 | 60.27 | 60.23 | 60.32 | 0.07 | 0.14 | 0.18 | 0.08 | 0.15 | 0.18 |
| 2000 | 65.70 | 65.94 | 66.23 | 0.11 | 0.19 | 0.24 | 0.10 | 0.18 | 0.22 |
| 2465 | 34.23 | 33.79 | 33.41 | 0.53 | 0.64 | 0.70 | 0.52 | 0.64 | 0.70 |
| 2485 | 30.08 | 29.57 | 29.18 | 0.64 | 0.76 | 0.84 | 0.64 | 0.78 | 0.84 |
| 2525 | 20.94 | 20.38 | 19.97 | 1.09 | 1.29 | 1.42 | 1.11 | 1.34 | 1.48 |
| 2565 | 10.31 | 9.86 | 9.58 | 3.34 | 3.98 | 4.40 | 3.41 | 4.11 | 4.56 |
| 2645 | 2.80 | 3.01 | 3.13 | 10.76 | 11.22 | 11.48 | 11.55 | 12.20 | 12.55 |
| 2700 | 1.94 | 2.16 | 2.29 | 19.32 | 19.02 | 18.91 | 31.22 | 28.44 | 27.21 |
| 2800 | 1.47 | 1.66 | 1.78 | 18.84 | 19.27 | 19.50 | 21.71 | 23.09 | 23.84 |
| 2900 | 1.31 | 1.50 | 1.60 | 15.60 | 15.65 | 15.71 | 16.77 | 16.86 | 16.86 |
| 2950 | 1.25 | 1.43 | 1.54 | 15.17 | 15.52 | 15.69 | 15.43 | 15.71 | 15.77 |
| 3000 | 1.15 | 1.33 | 1.44 | 17.56 | 17.97 | 18.28 | 17.30 | 17.45 | 17.45 |
| 3050 | 1.07 | 1.26 | 1.37 | 22.35 | 22.52 | 22.97 | 19.89 | 19.58 | 19.44 |
| 3100 | 1.03 | 1.21 | 1.32 | 28.06 | 28.96 | 29.67 | 22.54 | 22.45 | 22.40 |
| 3150 | 1.02 | 1.21 | 1.32 | 24.68 | 25.18 | 25.55 | 21.28 | 21.35 | 21.62 |
| 3200 | 1.02 | 1.22 | 1.33 | 23.98 | 23.47 | 23.64 | 21.27 | 21.10 | 21.37 |
| 3300 | 1.13 | 1.35 | 1.48 | 18.03 | 17.68 | 17.64 | 17.77 | 17.40 | 17.39 |
| 3400 | 1.39 | 1.63 | 1.80 | 22.49 | 24.42 | 25.15 | 19.65 | 20.35 | 20.73 |
| 3456 | 2.71 | 3.20 | 3.54 | 9.22 | 8.65 | 8.31 | 8.64 | 8.10 | 7.82 |
| 3520 | 9.89 | 10.50 | 10.97 | 1.68 | 1.81 | 1.87 | 1.56 | 1.70 | 1.76 |
| 3592 | 19.92 | 20.30 | 20.70 | 0.60 | 0.75 | 0.83 | 0.50 | 0.64 | 0.72 |
| 3640 | 25.85 | 26.20 | 26.54 | 0.41 | 0.55 | 0.63 | 0.35 | 0.48 | 0.55 |
| 3676 | 30.02 | 30.18 | 30.40 | 0.35 | 0.48 | 0.53 | 0.29 | 0.40 | 0.46 |
| 3700 | 33.23 | 33.33 | 33.36 | 0.32 | 0.45 | 0.50 | 0.25 | 0.37 | 0.42 |
| 3760 | 40.02 | 40.34 | 40.58 | 0.26 | 0.37 | 0.42 | 0.18 | 0.29 | 0.33 |
| 3800 | 44.89 | 45.28 | 45.74 | 0.24 | 0.34 | 0.39 | 0.17 | 0.26 | 0.30 |
| 3840 | 51.34 | 51.68 | 52.23 | 0.21 | 0.30 | 0.35 | 0.16 | 0.25 | 0.28 |
| 3900 | 71.69 | 69.44 | 68.88 | 0.17 | 0.27 | 0.31 | 0.12 | 0.21 | 0.24 |
| 3936 | 58.68 | 59.24 | 58.86 | 0.16 | 0.25 | 0.30 | 0.12 | 0.21 | 0.24 |
| 4009 | 53.10 | 53.11 | 52.93 | 0.14 | 0.24 | 0.28 | 0.11 | 0.19 | 0.21 |
| 4049 | 51.69 | 51.72 | 51.57 | 0.13 | 0.23 | 0.27 | 0.09 | 0.17 | 0.20 |
| 4089 | 50.81 | 50.93 | 50.86 | 0.11 | 0.21 | 0.26 | 0.07 | 0.16 | 0.18 |
| 4108 | 50.44 | 50.53 | 50.51 | 0.11 | 0.20 | 0.25 | 0.08 | 0.15 | 0.18 |
| 4144 | 50.71 | 50.36 | 50.20 | 0.10 | 0.19 | 0.24 | 0.09 | 0.17 | 0.20 |
| 4200 | 50.01 | 50.10 | 50.05 | 0.09 | 0.19 | 0.23 | 0.06 | 0.14 | 0.17 |
| 4236 | 49.75 | 49.92 | 49.98 | 0.09 | 0.19 | 0.24 | 0.06 | 0.15 | 0.18 |
| 4300 | 49.51 | 49.52 | 49.51 | 0.08 | 0.18 | 0.23 | 0.06 | 0.15 | 0.18 |
| 4200 | 50.01 | 50.10 | 50.05 | 0.09 | 0.19 | 0.23 | 0.06 | 0.14 | 0.17 |
| 4336 | 49.19 | 49.43 | 49.57 | 0.08 | 0.17 | 0.22 | 0.05 | 0.14 | 0.17 |
| 4400 | 48.92 | 48.99 | 48.95 | 0.07 | 0.17 | 0.22 | 0.05 | 0.15 | 0.19 |
| 4440 | 48.73 | 48.70 | 48.59 | 0.08 | 0.18 | 0.23 | 0.04 | 0.14 | 0.17 |
| 4500 | 48.50 | 48.40 | 48.60 | 0.09 | 0.20 | 0.25 | 0.05 | 0.15 | 0.19 |



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IF/RF MICROWAVE COMPONENTS

REV. OR
CBP2-3050BN+
211228

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Typical Performance Data

| FREQ. (MHz) | GROUP DELAY | | |
|--------------------|-------------|--------|--------|
| | (nsec) | | |
| | @-40°C | @+25°C | @+85°C |
| 2700 | 3.27 | 3.22 | 3.19 |
| 2710 | 3.16 | 3.11 | 3.08 |
| 2720 | 3.05 | 3.01 | 2.98 |
| 2730 | 2.95 | 2.91 | 2.89 |
| 2740 | 2.86 | 2.83 | 2.80 |
| 2750 | 2.78 | 2.75 | 2.73 |
| 2760 | 2.71 | 2.68 | 2.66 |
| 2770 | 2.65 | 2.63 | 2.61 |
| 2780 | 2.60 | 2.57 | 2.56 |
| 2790 | 2.55 | 2.53 | 2.51 |
| 2800 | 2.51 | 2.49 | 2.47 |
| 2810 | 2.47 | 2.44 | 2.43 |
| 2820 | 2.43 | 2.41 | 2.39 |
| 2830 | 2.39 | 2.37 | 2.35 |
| 2840 | 2.35 | 2.33 | 2.32 |
| 2850 | 2.31 | 2.29 | 2.28 |
| 2860 | 2.28 | 2.25 | 2.24 |
| 2870 | 2.24 | 2.21 | 2.20 |
| 2880 | 2.20 | 2.18 | 2.17 |
| 2890 | 2.17 | 2.14 | 2.13 |
| 2900 | 2.14 | 2.12 | 2.11 |
| 2910 | 2.11 | 2.10 | 2.08 |
| 2920 | 2.08 | 2.07 | 2.06 |
| 2930 | 2.06 | 2.05 | 2.04 |
| 3000 | 1.98 | 1.97 | 1.96 |
| 3050 | 1.95 | 1.94 | 1.93 |
| 3100 | 1.94 | 1.93 | 1.92 |
| 3120 | 1.94 | 1.93 | 1.92 |
| 3140 | 1.94 | 1.93 | 1.93 |
| 3160 | 1.95 | 1.94 | 1.93 |
| 3180 | 1.96 | 1.95 | 1.95 |
| 3200 | 1.98 | 1.97 | 1.97 |
| 3220 | 2.01 | 2.00 | 1.99 |
| 3240 | 2.03 | 2.03 | 2.02 |
| 3260 | 2.07 | 2.06 | 2.06 |
| 3280 | 2.11 | 2.10 | 2.10 |
| 3300 | 2.16 | 2.15 | 2.15 |
| 3320 | 2.21 | 2.21 | 2.21 |
| 3340 | 2.29 | 2.29 | 2.29 |
| 3360 | 2.40 | 2.41 | 2.41 |
| 3400 | 2.75 | 2.79 | 2.81 |