

Surface Mount Band Pass Filter

BPF-C650+

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS (dB) | | | INPUT RETURN LOSS (dB) | | | OUTPUT RETURNLOSS (dB) | | |
|----------------|------------------------|----------|----------|---------------------------|----------|----------|---------------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 95.52 | 92.30 | 103.93 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 2 | 101.63 | 98.11 | 108.28 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 88.68 | 102.82 | 88.79 | 0.01 | 0.01 | 0.01 | 0.02 | 0.05 | 0.07 |
| 100 | 71.45 | 73.27 | 73.97 | 0.00 | 0.03 | 0.02 | 0.11 | 0.15 | 0.16 |
| 150 | 57.22 | 57.08 | 57.13 | 0.01 | 0.04 | 0.03 | 0.20 | 0.25 | 0.28 |
| 180 | 49.73 | 49.64 | 49.76 | 0.05 | 0.06 | 0.06 | 0.23 | 0.30 | 0.32 |
| 185 | 48.47 | 48.58 | 48.77 | 0.04 | 0.07 | 0.07 | 0.24 | 0.31 | 0.33 |
| 200 | 45.25 | 45.31 | 45.28 | 0.05 | 0.07 | 0.07 | 0.25 | 0.32 | 0.34 |
| 250 | 35.52 | 35.49 | 35.44 | 0.10 | 0.12 | 0.13 | 0.25 | 0.33 | 0.38 |
| 280 | 30.27 | 30.23 | 30.21 | 0.13 | 0.16 | 0.17 | 0.25 | 0.35 | 0.40 |
| 300 | 26.70 | 26.63 | 26.57 | 0.17 | 0.20 | 0.21 | 0.27 | 0.38 | 0.45 |
| 340 | 19.76 | 19.71 | 19.64 | 0.28 | 0.33 | 0.34 | 0.44 | 0.59 | 0.69 |
| 350 | 18.05 | 18.02 | 17.98 | 0.32 | 0.37 | 0.40 | 0.51 | 0.68 | 0.78 |
| 380 | 13.21 | 13.22 | 13.24 | 0.55 | 0.61 | 0.65 | 0.89 | 1.10 | 1.20 |
| 400 | 10.43 | 10.48 | 10.50 | 0.83 | 0.91 | 0.96 | 1.25 | 1.48 | 1.60 |
| 450 | 5.67 | 5.70 | 5.67 | 2.15 | 2.32 | 2.44 | 2.50 | 2.81 | 3.00 |
| 480 | 3.71 | 3.71 | 3.65 | 3.64 | 3.93 | 4.19 | 3.86 | 4.29 | 4.65 |
| 500 | 2.52 | 2.56 | 2.54 | 5.27 | 5.69 | 6.07 | 5.46 | 6.04 | 6.57 |
| 520 | 1.63 | 1.72 | 1.74 | 7.82 | 8.40 | 8.87 | 8.15 | 8.97 | 9.68 |
| 550 | 0.82 | 1.00 | 1.10 | 14.18 | 14.57 | 14.79 | 16.11 | 17.48 | 18.41 |
| 560 | 0.74 | 0.92 | 1.03 | 16.11 | 16.07 | 15.97 | 19.61 | 20.58 | 20.88 |
| 580 | 0.79 | 0.98 | 1.10 | 15.20 | 14.99 | 14.87 | 17.30 | 17.17 | 16.96 |
| 600 | 0.91 | 1.09 | 1.19 | 12.82 | 12.95 | 13.14 | 13.32 | 13.45 | 13.60 |
| 620 | 0.98 | 1.16 | 1.25 | 11.73 | 12.06 | 12.49 | 11.63 | 11.92 | 12.27 |
| 650 | 1.01 | 1.20 | 1.29 | 12.38 | 12.96 | 13.64 | 11.70 | 12.11 | 12.64 |
| 680 | 0.87 | 1.08 | 1.19 | 16.32 | 17.19 | 18.06 | 14.57 | 14.98 | 15.47 |
| 700 | 0.85 | 1.08 | 1.22 | 20.74 | 21.83 | 22.55 | 17.38 | 17.54 | 17.81 |
| 720 | 0.88 | 1.15 | 1.30 | 19.18 | 19.43 | 19.91 | 16.73 | 16.60 | 16.76 |
| 730 | 1.00 | 1.26 | 1.40 | 16.94 | 17.15 | 17.68 | 15.15 | 15.05 | 15.30 |
| 750 | 1.26 | 1.54 | 1.70 | 14.18 | 14.63 | 15.31 | 12.89 | 13.11 | 13.57 |
| 780 | 1.28 | 1.67 | 1.95 | 17.89 | 18.94 | 18.92 | 20.23 | 25.19 | 33.71 |
| 800 | 2.97 | 3.93 | 4.64 | 7.63 | 6.91 | 6.39 | 7.67 | 6.75 | 6.13 |
| 820 | 10.65 | 11.93 | 12.88 | 2.09 | 2.27 | 2.35 | 1.47 | 1.57 | 1.61 |
| 830 | 15.00 | 16.26 | 17.20 | 1.44 | 1.68 | 1.80 | 0.79 | 0.96 | 1.05 |
| 847 | 23.33 | 24.48 | 25.33 | 1.04 | 1.27 | 1.39 | 0.38 | 0.56 | 0.65 |
| 850 | 24.87 | 26.03 | 26.88 | 0.98 | 1.22 | 1.34 | 0.36 | 0.52 | 0.62 |
| 880 | 40.56 | 42.09 | 43.27 | 0.74 | 0.94 | 1.04 | 0.18 | 0.34 | 0.42 |
| 890 | 48.56 | 50.30 | 52.06 | 0.70 | 0.88 | 0.97 | 0.15 | 0.30 | 0.39 |
| 900 | 62.98 | 62.42 | 61.14 | 0.66 | 0.83 | 0.92 | 0.13 | 0.28 | 0.36 |
| 920 | 51.81 | 51.63 | 51.62 | 0.59 | 0.73 | 0.82 | 0.10 | 0.25 | 0.33 |
| 930 | 50.20 | 50.13 | 50.04 | 0.56 | 0.70 | 0.78 | 0.09 | 0.25 | 0.32 |
| 950 | 49.91 | 50.38 | 50.41 | 0.51 | 0.65 | 0.73 | 0.08 | 0.23 | 0.29 |
| 1000 | 52.65 | 53.16 | 53.07 | 0.51 | 0.62 | 0.70 | 0.11 | 0.26 | 0.33 |
| 1050 | 56.47 | 56.83 | 57.10 | 0.43 | 0.55 | 0.61 | 0.11 | 0.26 | 0.32 |
| 1100 | 60.04 | 60.49 | 59.89 | 0.38 | 0.49 | 0.56 | 0.12 | 0.27 | 0.32 |
| 1150 | 64.11 | 63.66 | 63.45 | 0.35 | 0.47 | 0.54 | 0.12 | 0.28 | 0.34 |
| 1200 | 65.35 | 65.51 | 65.99 | 0.30 | 0.43 | 0.50 | 0.15 | 0.31 | 0.38 |
| 1250 | 69.37 | 69.44 | 68.91 | 0.29 | 0.43 | 0.52 | 0.14 | 0.32 | 0.37 |
| 1300 | 76.23 | 73.30 | 73.90 | 0.27 | 0.41 | 0.50 | 0.20 | 0.37 | 0.42 |
| 1350 | 81.10 | 87.31 | 84.56 | 0.27 | 0.42 | 0.52 | 0.18 | 0.37 | 0.43 |
| 1400 | 74.44 | 77.64 | 76.32 | 0.26 | 0.43 | 0.54 | 0.22 | 0.40 | 0.47 |
| 1450 | 69.93 | 69.11 | 68.84 | 0.27 | 0.46 | 0.56 | 0.22 | 0.41 | 0.48 |
| 1500 | 64.86 | 66.29 | 65.23 | 0.28 | 0.48 | 0.60 | 0.24 | 0.45 | 0.52 |
| 1550 | 62.39 | 62.22 | 62.65 | 0.29 | 0.51 | 0.64 | 0.23 | 0.43 | 0.51 |
| 1600 | 60.21 | 59.54 | 59.73 | 0.32 | 0.53 | 0.68 | 0.25 | 0.47 | 0.57 |

REV. X1

BPF-C650+

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Typical Performance Data

| FREQ. (MHz) | GROUP DELAY (nsec) | | |
|----------------|-----------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C |
| 560 | 3.79 | 3.75 | 3.70 |
| 565 | 3.75 | 3.71 | 3.66 |
| 570 | 3.74 | 3.69 | 3.65 |
| 575 | 3.67 | 3.64 | 3.60 |
| 580 | 3.60 | 3.57 | 3.53 |
| 590 | 3.54 | 3.51 | 3.49 |
| 600 | 3.49 | 3.47 | 3.44 |
| 610 | 3.43 | 3.41 | 3.40 |
| 620 | 3.40 | 3.39 | 3.39 |
| 630 | 3.38 | 3.39 | 3.39 |
| 640 | 3.41 | 3.42 | 3.42 |
| 650 | 3.48 | 3.49 | 3.49 |
| 660 | 3.55 | 3.57 | 3.57 |
| 670 | 3.66 | 3.67 | 3.68 |
| 680 | 3.80 | 3.80 | 3.81 |
| 690 | 3.92 | 3.94 | 3.94 |
| 700 | 4.06 | 4.07 | 4.07 |
| 710 | 4.23 | 4.24 | 4.24 |
| 720 | 4.40 | 4.41 | 4.42 |
| 730 | 4.58 | 4.61 | 4.63 |
| 740 | 4.75 | 4.79 | 4.83 |
| 750 | 4.94 | 5.00 | 5.06 |
| 755 | 5.16 | 5.24 | 5.32 |
| 760 | 5.45 | 5.55 | 5.64 |
| 765 | 5.81 | 5.93 | 6.05 |
| 770 | 6.17 | 6.33 | 6.48 |
| 776 | 6.53 | 6.75 | 6.87 |
| 777 | 6.81 | 7.07 | 7.23 |
| 778 | 7.09 | 7.34 | 7.55 |
| 779 | 7.27 | 7.55 | 7.74 |
| 780 | 7.41 | 7.69 | 7.88 |

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