

Surface Mount Band Pass Filter

BPF-B140W+

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 | 90.08 | 95.18 | 96.84 | 0.32 | 0.42 | 0.52 | 0.33 | 0.44 | 0.54 |
| 1 | 97.60 | 95.85 | 99.44 | 0.33 | 0.44 | 0.53 | 0.34 | 0.45 | 0.55 |
| 5 | 84.51 | 88.68 | 89.00 | 0.37 | 0.48 | 0.57 | 0.37 | 0.49 | 0.59 |
| 10 | 82.33 | 83.15 | 81.47 | 0.39 | 0.49 | 0.58 | 0.38 | 0.49 | 0.59 |
| 15 | 79.75 | 79.07 | 79.40 | 0.39 | 0.48 | 0.56 | 0.38 | 0.48 | 0.57 |
| 20 | 78.20 | 78.29 | 78.27 | 0.38 | 0.46 | 0.53 | 0.38 | 0.46 | 0.54 |
| 25 | 78.97 | 78.78 | 78.92 | 0.36 | 0.43 | 0.49 | 0.36 | 0.43 | 0.49 |
| 30 | 78.39 | 80.92 | 78.87 | 0.34 | 0.40 | 0.45 | 0.33 | 0.39 | 0.44 |
| 35 | 78.20 | 79.33 | 79.57 | 0.31 | 0.36 | 0.40 | 0.30 | 0.35 | 0.39 |
| 40 | 81.13 | 79.79 | 78.46 | 0.29 | 0.33 | 0.37 | 0.27 | 0.32 | 0.36 |
| 45 | 80.34 | 80.12 | 79.50 | 0.26 | 0.30 | 0.33 | 0.25 | 0.29 | 0.32 |
| 50 | 82.73 | 82.43 | 81.52 | 0.24 | 0.27 | 0.30 | 0.22 | 0.26 | 0.29 |
| 55 | 82.51 | 83.57 | 84.01 | 0.22 | 0.25 | 0.27 | 0.20 | 0.24 | 0.27 |
| 60 | 85.11 | 82.66 | 87.10 | 0.20 | 0.23 | 0.25 | 0.18 | 0.22 | 0.25 |
| 65 | 87.43 | 89.85 | 88.86 | 0.18 | 0.21 | 0.23 | 0.16 | 0.20 | 0.23 |
| 70 | 99.62 | 92.05 | 92.12 | 0.17 | 0.19 | 0.21 | 0.14 | 0.18 | 0.21 |
| 75 | 88.54 | 91.80 | 91.51 | 0.15 | 0.18 | 0.20 | 0.13 | 0.17 | 0.20 |
| 80 | 80.81 | 79.52 | 79.65 | 0.14 | 0.17 | 0.18 | 0.11 | 0.15 | 0.18 |
| 85 | 74.83 | 74.53 | 73.69 | 0.13 | 0.16 | 0.17 | 0.10 | 0.15 | 0.18 |
| 90 | 68.51 | 68.54 | 68.22 | 0.13 | 0.15 | 0.17 | 0.10 | 0.14 | 0.18 |
| 95 | 63.32 | 63.36 | 63.10 | 0.13 | 0.15 | 0.17 | 0.10 | 0.15 | 0.18 |
| 100 | 57.55 | 57.65 | 57.05 | 0.14 | 0.16 | 0.18 | 0.11 | 0.16 | 0.19 |
| 102 | 55.24 | 55.05 | 54.80 | 0.14 | 0.17 | 0.19 | 0.11 | 0.16 | 0.20 |
| 103 | 53.97 | 53.78 | 53.59 | 0.15 | 0.17 | 0.20 | 0.11 | 0.17 | 0.21 |
| 104 | 52.77 | 52.55 | 52.25 | 0.15 | 0.18 | 0.20 | 0.12 | 0.17 | 0.21 |
| 105 | 51.42 | 51.23 | 50.96 | 0.15 | 0.19 | 0.21 | 0.12 | 0.18 | 0.22 |
| 110 | 44.58 | 44.35 | 44.02 | 0.19 | 0.23 | 0.27 | 0.17 | 0.23 | 0.28 |
| 117 | 33.06 | 32.74 | 32.33 | 0.34 | 0.42 | 0.48 | 0.33 | 0.43 | 0.51 |
| 120 | 27.09 | 26.74 | 26.27 | 0.51 | 0.61 | 0.71 | 0.50 | 0.64 | 0.76 |
| 130 | 3.75 | 4.04 | 4.19 | 12.23 | 13.74 | 15.72 | 12.79 | 14.57 | 16.79 |
| 135 | 2.21 | 2.57 | 2.84 | 23.54 | 23.12 | 22.58 | 28.62 | 27.40 | 26.41 |
| 140 | 2.06 | 2.42 | 2.71 | 23.51 | 24.31 | 25.17 | 24.42 | 25.14 | 25.73 |
| 145 | 2.27 | 2.69 | 3.04 | 20.20 | 19.83 | 19.82 | 20.35 | 19.98 | 19.90 |
| 150 | 4.11 | 4.97 | 5.86 | 10.46 | 9.67 | 8.68 | 10.06 | 9.31 | 8.39 |
| 160 | 22.95 | 23.60 | 24.32 | 0.90 | 1.00 | 1.07 | 0.87 | 1.00 | 1.08 |
| 165 | 30.05 | 30.56 | 31.12 | 0.59 | 0.67 | 0.72 | 0.57 | 0.67 | 0.74 |
| 170 | 35.72 | 36.14 | 36.60 | 0.44 | 0.50 | 0.55 | 0.41 | 0.51 | 0.57 |
| 180 | 44.49 | 44.79 | 45.10 | 0.30 | 0.34 | 0.38 | 0.27 | 0.34 | 0.39 |
| 190 | 51.11 | 51.38 | 51.62 | 0.22 | 0.26 | 0.29 | 0.19 | 0.26 | 0.31 |
| 200 | 56.53 | 56.66 | 56.76 | 0.18 | 0.22 | 0.24 | 0.15 | 0.22 | 0.26 |
| 300 | 85.85 | 85.30 | 84.56 | 0.07 | 0.10 | 0.12 | 0.04 | 0.10 | 0.14 |
| 400 | 91.36 | 90.71 | 88.15 | 0.06 | 0.09 | 0.11 | 0.02 | 0.09 | 0.13 |
| 500 | 86.55 | 87.80 | 88.09 | 0.06 | 0.10 | 0.12 | 0.01 | 0.10 | 0.14 |
| 600 | 82.35 | 86.90 | 83.20 | 0.07 | 0.11 | 0.14 | 0.02 | 0.12 | 0.17 |
| 700 | 83.54 | 82.57 | 83.68 | 0.09 | 0.13 | 0.16 | 0.03 | 0.14 | 0.20 |
| 800 | 80.88 | 80.73 | 79.87 | 0.10 | 0.15 | 0.18 | 0.04 | 0.16 | 0.23 |
| 850 | 85.17 | 82.03 | 84.45 | 0.11 | 0.16 | 0.19 | 0.05 | 0.17 | 0.24 |
| 900 | 80.74 | 82.24 | 80.58 | 0.12 | 0.17 | 0.20 | 0.06 | 0.19 | 0.25 |
| 950 | 79.74 | 82.48 | 77.37 | 0.13 | 0.17 | 0.21 | 0.07 | 0.20 | 0.27 |
| 1000 | 74.13 | 79.52 | 73.46 | 0.13 | 0.18 | 0.22 | 0.07 | 0.21 | 0.28 |
| 1100 | 80.23 | 80.76 | 79.35 | 0.15 | 0.20 | 0.23 | 0.08 | 0.23 | 0.30 |
| 1200 | 80.42 | 78.05 | 80.54 | 0.16 | 0.21 | 0.24 | 0.09 | 0.24 | 0.33 |
| 1300 | 68.13 | 72.39 | 68.19 | 0.16 | 0.22 | 0.26 | 0.10 | 0.25 | 0.34 |
| 1400 | 71.41 | 70.56 | 69.76 | 0.17 | 0.23 | 0.26 | 0.10 | 0.27 | 0.36 |
| 1500 | 66.73 | 71.24 | 69.10 | 0.18 | 0.23 | 0.27 | 0.10 | 0.27 | 0.36 |

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BPF-B140W+

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Typical Performance Data

| FREQ. (MHz) | GROUP DELAY (nsec) | | |
|----------------|-----------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C |
| 135.0 | 46.36 | 45.87 | 45.40 |
| 135.3 | 45.87 | 45.44 | 44.98 |
| 135.5 | 45.40 | 44.98 | 44.59 |
| 135.8 | 44.94 | 44.58 | 44.22 |
| 136.0 | 44.55 | 44.22 | 43.90 |
| 136.3 | 44.22 | 43.89 | 43.57 |
| 136.5 | 43.86 | 43.57 | 43.30 |
| 136.8 | 43.55 | 43.29 | 43.06 |
| 137.0 | 43.22 | 43.00 | 42.77 |
| 137.3 | 42.94 | 42.75 | 42.56 |
| 137.5 | 42.68 | 42.52 | 42.35 |
| 137.8 | 42.46 | 42.33 | 42.18 |
| 138.0 | 42.27 | 42.14 | 42.03 |
| 138.3 | 42.07 | 41.98 | 41.87 |
| 138.5 | 41.88 | 41.80 | 41.75 |
| 138.8 | 41.74 | 41.66 | 41.64 |
| 139.0 | 41.61 | 41.58 | 41.56 |
| 139.3 | 41.54 | 41.50 | 41.51 |
| 139.5 | 41.44 | 41.44 | 41.46 |
| 139.8 | 41.37 | 41.38 | 41.43 |
| 140.0 | 41.31 | 41.32 | 41.40 |
| 140.3 | 41.26 | 41.29 | 41.33 |
| 140.5 | 41.26 | 41.30 | 41.36 |
| 140.8 | 41.25 | 41.31 | 41.39 |
| 141.0 | 41.26 | 41.32 | 41.42 |
| 141.3 | 41.27 | 41.32 | 41.44 |
| 141.5 | 41.28 | 41.34 | 41.49 |
| 141.8 | 41.34 | 41.42 | 41.55 |
| 142.0 | 41.38 | 41.46 | 41.61 |
| 142.3 | 41.44 | 41.54 | 41.69 |
| 142.5 | 41.53 | 41.62 | 41.84 |
| 142.8 | 41.59 | 41.70 | 41.93 |
| 143.0 | 41.71 | 41.84 | 42.10 |
| 143.3 | 41.84 | 41.98 | 42.28 |
| 143.5 | 41.96 | 42.14 | 42.46 |
| 143.8 | 42.10 | 42.31 | 42.68 |
| 144.0 | 42.32 | 42.53 | 42.95 |
| 144.3 | 42.53 | 42.81 | 43.27 |
| 144.5 | 42.79 | 43.09 | 43.64 |
| 144.8 | 43.04 | 43.44 | 44.03 |
| 145.0 | 43.42 | 43.83 | 44.49 |

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