

Metal Shield Low Pass Filter

RLP-50+

Typical Performance Data

| FREQ. (MHz) | INSERTION LOSS (dB) | | | INPUT RETURN LOSS (dB) | | | OUTPUT RETURN LOSS (dB) | | |
|----------------|------------------------|----------|----------|---------------------------|----------|----------|----------------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 0.40 | 0.55 | 0.66 | 26.72 | 24.25 | 22.69 | 26.74 | 24.21 | 22.63 |
| 10 | 0.44 | 0.58 | 0.69 | 21.23 | 20.49 | 19.86 | 21.30 | 20.62 | 20.03 |
| 20 | 0.50 | 0.63 | 0.74 | 21.45 | 21.26 | 20.99 | 21.63 | 21.56 | 21.40 |
| 30 | 0.60 | 0.75 | 0.87 | 36.40 | 36.08 | 35.54 | 47.36 | 44.94 | 41.75 |
| 40 | 0.82 | 0.99 | 1.13 | 26.30 | 26.55 | 26.70 | 25.94 | 26.12 | 26.19 |
| 50 | 1.16 | 1.39 | 1.58 | 29.68 | 30.46 | 30.26 | 31.08 | 33.67 | 34.81 |
| 56 | 1.75 | 2.08 | 2.35 | 18.08 | 18.10 | 17.79 | 19.26 | 19.62 | 19.37 |
| 59 | 2.81 | 3.25 | 3.62 | 11.14 | 11.13 | 10.97 | 11.63 | 11.68 | 11.52 |
| 70 | 16.47 | 17.11 | 17.60 | 1.40 | 1.55 | 1.66 | 1.43 | 1.59 | 1.69 |
| 75 | 24.45 | 25.04 | 25.49 | 0.93 | 1.05 | 1.14 | 0.93 | 1.07 | 1.15 |
| 78 | 29.08 | 29.64 | 30.08 | 0.80 | 0.92 | 1.00 | 0.80 | 0.92 | 1.00 |
| 80 | 32.15 | 32.70 | 33.13 | 0.73 | 0.84 | 0.92 | 0.73 | 0.85 | 0.92 |
| 91 | 49.79 | 50.45 | 50.86 | 0.53 | 0.61 | 0.67 | 0.51 | 0.61 | 0.67 |
| 100 | 69.50 | 69.08 | 68.92 | 0.44 | 0.50 | 0.55 | 0.41 | 0.50 | 0.56 |
| 150 | 73.24 | 73.05 | 73.58 | 0.21 | 0.26 | 0.29 | 0.19 | 0.26 | 0.30 |
| 200 | 77.67 | 77.93 | 78.34 | 0.13 | 0.18 | 0.21 | 0.11 | 0.18 | 0.23 |
| 300 | 76.71 | 76.76 | 78.67 | 0.08 | 0.13 | 0.16 | 0.04 | 0.13 | 0.18 |
| 400 | 80.15 | 80.25 | 81.10 | 0.06 | 0.12 | 0.16 | 0.02 | 0.12 | 0.18 |
| 450 | 83.20 | 82.49 | 80.75 | 0.06 | 0.11 | 0.16 | 0.02 | 0.12 | 0.19 |
| 500 | 85.52 | 84.10 | 82.65 | 0.05 | 0.12 | 0.17 | 0.01 | 0.13 | 0.20 |
| 550 | 87.04 | 89.14 | 87.95 | 0.05 | 0.12 | 0.18 | 0.01 | 0.13 | 0.21 |
| 600 | 89.50 | 85.38 | 89.64 | 0.06 | 0.13 | 0.19 | 0.00 | 0.14 | 0.22 |
| 700 | 93.13 | 85.12 | 88.74 | 0.06 | 0.14 | 0.21 | 0.00 | 0.15 | 0.25 |
| 750 | 81.26 | 83.12 | 80.59 | 0.07 | 0.15 | 0.22 | 0.00 | 0.16 | 0.26 |
| 800 | 71.22 | 71.00 | 70.78 | 0.07 | 0.16 | 0.24 | 0.00 | 0.17 | 0.27 |
| 850 | 57.15 | 56.79 | 56.87 | 0.07 | 0.17 | 0.25 | 0.03 | 0.20 | 0.32 |
| 900 | 57.81 | 58.60 | 59.14 | 0.07 | 0.17 | 0.25 | 0.01 | 0.19 | 0.30 |
| 1000 | 61.75 | 61.99 | 62.17 | 0.08 | 0.19 | 0.28 | 0.01 | 0.20 | 0.32 |
| 1200 | 54.77 | 55.77 | 56.74 | 0.11 | 0.23 | 0.34 | 0.02 | 0.24 | 0.38 |
| 1400 | 73.23 | 76.73 | 75.15 | 0.12 | 0.25 | 0.37 | 0.02 | 0.26 | 0.42 |
| 1500 | 78.85 | 75.02 | 78.51 | 0.12 | 0.27 | 0.39 | 0.03 | 0.28 | 0.44 |
| 1800 | 73.16 | 72.56 | 75.36 | 0.15 | 0.31 | 0.43 | 0.03 | 0.31 | 0.48 |
| 2000 | 79.85 | 75.60 | 74.18 | 0.16 | 0.32 | 0.45 | 0.03 | 0.32 | 0.51 |
| 2200 | 72.61 | 74.02 | 74.07 | 0.17 | 0.34 | 0.47 | 0.03 | 0.34 | 0.53 |
| 2400 | 60.54 | 63.48 | 62.80 | 0.20 | 0.36 | 0.49 | 0.03 | 0.35 | 0.55 |
| 2500 | 58.56 | 57.53 | 56.09 | 0.19 | 0.36 | 0.50 | 0.03 | 0.36 | 0.56 |
| 2800 | 52.98 | 52.75 | 52.49 | 0.20 | 0.37 | 0.50 | 0.02 | 0.36 | 0.57 |
| 3000 | 52.52 | 52.56 | 54.87 | 0.20 | 0.38 | 0.49 | 0.03 | 0.38 | 0.59 |
| 3200 | 44.65 | 45.47 | 44.96 | 0.22 | 0.41 | 0.54 | 0.03 | 0.41 | 0.62 |
| 3400 | 47.29 | 45.43 | 45.84 | 0.21 | 0.41 | 0.54 | 0.03 | 0.44 | 0.68 |
| 3500 | 46.01 | 45.01 | 44.24 | 0.24 | 0.45 | 0.57 | 0.12 | 0.64 | 0.88 |
| 3800 | 40.32 | 41.44 | 40.65 | 0.57 | 0.63 | 0.76 | 0.08 | 0.48 | 0.73 |
| 4000 | 37.96 | 38.02 | 37.28 | 0.34 | 0.53 | 0.68 | 0.08 | 0.52 | 0.77 |
| 4200 | 34.72 | 33.48 | 32.70 | 0.34 | 0.61 | 0.73 | 0.10 | 0.60 | 0.88 |
| 4400 | 29.91 | 28.60 | 28.19 | 0.36 | 0.68 | 0.90 | 0.23 | 0.82 | 1.17 |
| 4500 | 28.02 | 26.71 | 26.99 | 0.44 | 0.82 | 1.08 | 0.36 | 1.03 | 1.46 |
| 4800 | 16.02 | 14.31 | 14.22 | 1.47 | 2.77 | 3.41 | 1.80 | 4.47 | 5.71 |
| 5000 | 8.22 | 10.27 | 11.75 | 5.44 | 6.49 | 6.72 | 8.79 | 5.83 | 5.01 |
| 5200 | 9.46 | 13.53 | 15.09 | 12.27 | 6.69 | 6.51 | 4.15 | 3.52 | 3.83 |
| 5300 | 13.33 | 17.69 | 19.37 | 4.49 | 3.84 | 4.35 | 2.82 | 2.80 | 3.28 |
| 5400 | 18.06 | 23.16 | 25.49 | 2.48 | 2.81 | 3.15 | 1.49 | 1.88 | 2.36 |
| 5500 | 23.20 | 29.78 | 31.76 | 2.25 | 2.13 | 2.30 | 0.95 | 1.43 | 1.91 |
| 5800 | 32.44 | 33.69 | 33.86 | 0.77 | 1.10 | 1.43 | 0.42 | 1.08 | 1.51 |
| 6000 | 31.65 | 33.62 | 32.54 | 0.75 | 1.15 | 1.44 | 0.56 | 1.18 | 1.55 |

REV. X2
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 101114
 Page 1 of 2



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Typical Performance Data

| FREQ. (MHz) | GROUP DELAY (nsec) | | |
|----------------|-----------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 12.33 | 12.37 | 12.40 |
| 1 | 12.33 | 12.37 | 12.40 |
| 2 | 12.34 | 12.37 | 12.41 |
| 3 | 12.34 | 12.37 | 12.41 |
| 4 | 12.34 | 12.37 | 12.41 |
| 5 | 12.36 | 12.39 | 12.43 |
| 6 | 12.38 | 12.41 | 12.45 |
| 8 | 12.42 | 12.45 | 12.49 |
| 10 | 12.52 | 12.55 | 12.59 |
| 12 | 12.61 | 12.65 | 12.69 |
| 14 | 12.76 | 12.81 | 12.85 |
| 15 | 12.84 | 12.88 | 12.92 |
| 16 | 12.93 | 12.97 | 13.02 |
| 18 | 13.14 | 13.19 | 13.23 |
| 20 | 13.38 | 13.43 | 13.48 |
| 22 | 13.69 | 13.74 | 13.79 |
| 24 | 14.08 | 14.15 | 14.20 |
| 25 | 14.33 | 14.40 | 14.46 |
| 26 | 14.57 | 14.65 | 14.71 |
| 28 | 15.33 | 15.41 | 15.47 |
| 30 | 16.24 | 16.32 | 16.39 |
| 32 | 17.02 | 17.07 | 17.11 |
| 34 | 17.76 | 17.76 | 17.76 |
| 35 | 17.79 | 17.78 | 17.78 |
| 36 | 17.72 | 17.70 | 17.69 |
| 38 | 17.58 | 17.55 | 17.52 |
| 40 | 17.15 | 17.11 | 17.08 |
| 42 | 16.71 | 16.66 | 16.63 |
| 44 | 16.20 | 16.14 | 16.10 |
| 45 | 15.94 | 15.87 | 15.83 |
| 46 | 15.75 | 15.68 | 15.63 |
| 48 | 15.51 | 15.42 | 15.36 |
| 50 | 15.18 | 15.04 | 14.95 |
| 52 | 14.70 | 14.44 | 14.31 |
| 54 | 13.57 | 13.37 | 13.20 |
| 56 | 11.79 | 11.82 | 11.63 |
| 60 | 10.07 | 10.02 | 10.07 |
| 62 | 9.67 | 9.60 | 9.67 |
| 64 | 9.36 | 9.28 | 9.34 |
| 66 | 9.10 | 9.03 | 9.07 |
| 70 | 8.59 | 8.56 | 8.57 |
| 72 | 8.33 | 8.32 | 8.32 |
| 74 | 8.08 | 8.07 | 8.07 |
| 76 | 7.83 | 7.82 | 7.80 |
| 80 | 7.36 | 7.33 | 7.20 |
| 82 | 6.99 | 7.01 | 6.96 |
| 84 | 6.68 | 6.71 | 6.70 |
| 86 | 6.41 | 6.42 | 6.41 |
| 90 | 5.74 | 5.74 | 5.74 |
| 92 | 5.41 | 5.40 | 5.39 |
| 94 | 5.09 | 5.08 | 5.05 |
| 96 | 4.78 | 4.78 | 4.72 |
| 100 | 4.01 | 4.04 | 3.95 |
| 110 | 1.14 | 0.95 | 1.12 |

REV. X2
RLP-50+
101114

Page 2 of 2



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