

Surface Mount Low Pass Filter

SXLP-27+

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 | 0.03 | 0.04 | 0.04 | 43.60 | 43.20 | 42.68 | 43.66 | 43.29 | 42.81 |
| 1.0 | 0.03 | 0.05 | 0.04 | 37.94 | 37.98 | 37.82 | 37.95 | 38.02 | 37.91 |
| 3.0 | 0.04 | 0.05 | 0.05 | 28.89 | 29.07 | 29.16 | 28.84 | 29.06 | 29.21 |
| 5.0 | 0.09 | 0.10 | 0.10 | 25.50 | 25.66 | 25.75 | 25.42 | 25.66 | 25.82 |
| 7.0 | 0.10 | 0.10 | 0.11 | 24.40 | 24.56 | 24.63 | 24.28 | 24.54 | 24.68 |
| 10.0 | 0.11 | 0.13 | 0.13 | 26.23 | 26.34 | 26.40 | 25.90 | 26.19 | 26.38 |
| 12.0 | 0.12 | 0.14 | 0.15 | 30.91 | 31.02 | 31.06 | 30.05 | 30.44 | 30.64 |
| 14.0 | 0.14 | 0.17 | 0.17 | 49.76 | 50.38 | 50.24 | 37.88 | 38.72 | 39.14 |
| 15.0 | 0.15 | 0.18 | 0.18 | 39.38 | 39.55 | 39.99 | 36.01 | 36.41 | 36.82 |
| 17.0 | 0.13 | 0.16 | 0.17 | 30.34 | 30.46 | 30.68 | 29.89 | 30.10 | 30.39 |
| 18.0 | 0.15 | 0.18 | 0.19 | 29.15 | 29.26 | 29.39 | 28.91 | 29.11 | 29.42 |
| 20.0 | 0.18 | 0.20 | 0.22 | 31.05 | 30.97 | 30.92 | 31.24 | 31.64 | 32.10 |
| 22.0 | 0.21 | 0.24 | 0.26 | 34.28 | 33.17 | 32.28 | 38.89 | 37.63 | 36.59 |
| 23.0 | 0.24 | 0.27 | 0.29 | 28.12 | 27.74 | 27.47 | 29.27 | 28.87 | 28.58 |
| 25.0 | 0.32 | 0.35 | 0.38 | 21.78 | 21.78 | 21.83 | 22.03 | 21.97 | 22.00 |
| 26.0 | 0.35 | 0.39 | 0.42 | 21.67 | 21.82 | 22.01 | 21.75 | 21.82 | 21.95 |
| 27.0 | 0.39 | 0.43 | 0.47 | 26.22 | 26.83 | 27.50 | 25.57 | 25.77 | 26.04 |
| 28.0 | 0.49 | 0.54 | 0.60 | 25.51 | 24.72 | 24.05 | 23.91 | 23.11 | 22.42 |
| 28.9 | 0.83 | 0.91 | 1.01 | 13.37 | 13.06 | 12.82 | 13.16 | 12.82 | 12.55 |
| 29.0 | 0.90 | 0.99 | 1.08 | 12.49 | 12.19 | 11.98 | 12.29 | 11.98 | 11.74 |
| 30.0 | 2.21 | 2.36 | 2.50 | 6.02 | 5.89 | 5.82 | 5.96 | 5.82 | 5.73 |
| 31.0 | 4.92 | 5.12 | 5.29 | 2.68 | 2.64 | 2.64 | 2.65 | 2.61 | 2.60 |
| 32.0 | 8.63 | 8.86 | 9.03 | 1.23 | 1.24 | 1.27 | 1.22 | 1.23 | 1.24 |
| 32.5 | 10.65 | 10.88 | 11.07 | 0.88 | 0.89 | 0.93 | 0.86 | 0.88 | 0.91 |
| 33.0 | 12.70 | 12.91 | 13.10 | 0.65 | 0.67 | 0.70 | 0.64 | 0.66 | 0.69 |
| 34.0 | 16.75 | 16.98 | 17.15 | 0.41 | 0.42 | 0.46 | 0.41 | 0.43 | 0.46 |
| 35.0 | 20.73 | 20.92 | 21.09 | 0.30 | 0.31 | 0.34 | 0.30 | 0.32 | 0.35 |
| 36.0 | 24.56 | 24.77 | 24.94 | 0.23 | 0.24 | 0.27 | 0.24 | 0.26 | 0.29 |
| 37.0 | 28.27 | 28.50 | 28.67 | 0.19 | 0.21 | 0.23 | 0.19 | 0.22 | 0.25 |
| 38.0 | 31.95 | 32.19 | 32.35 | 0.17 | 0.19 | 0.21 | 0.16 | 0.19 | 0.22 |
| 39.0 | 35.57 | 35.82 | 36.00 | 0.14 | 0.16 | 0.17 | 0.14 | 0.17 | 0.20 |
| 40.0 | 39.18 | 39.46 | 39.62 | 0.13 | 0.15 | 0.16 | 0.12 | 0.15 | 0.18 |
| 41.0 | 42.80 | 43.11 | 43.25 | 0.12 | 0.13 | 0.15 | 0.11 | 0.13 | 0.16 |
| 50.0 | 67.14 | 66.70 | 67.07 | 0.06 | 0.08 | 0.09 | 0.04 | 0.08 | 0.11 |
| 60.0 | 63.93 | 63.73 | 63.32 | 0.06 | 0.07 | 0.08 | 0.02 | 0.05 | 0.08 |
| 70.0 | 63.44 | 62.97 | 63.02 | 0.07 | 0.08 | 0.09 | 0.06 | 0.10 | 0.12 |
| 80.0 | 64.92 | 65.08 | 65.54 | 0.07 | 0.08 | 0.08 | 0.05 | 0.09 | 0.11 |
| 90.0 | 67.48 | 67.88 | 68.24 | 0.08 | 0.08 | 0.09 | 0.05 | 0.09 | 0.11 |
| 100.0 | 68.87 | 70.59 | 70.26 | 0.07 | 0.08 | 0.09 | 0.04 | 0.08 | 0.11 |
| 200.0 | 67.06 | 66.34 | 67.43 | 0.11 | 0.12 | 0.12 | 0.06 | 0.12 | 0.16 |
| 300.0 | 60.82 | 60.52 | 60.93 | 0.14 | 0.16 | 0.16 | 0.08 | 0.14 | 0.18 |
| 400.0 | 57.43 | 57.52 | 58.00 | 0.15 | 0.18 | 0.19 | 0.09 | 0.17 | 0.20 |
| 500.0 | 56.45 | 56.64 | 56.52 | 0.15 | 0.18 | 0.20 | 0.08 | 0.17 | 0.21 |
| 600.0 | 56.64 | 56.72 | 56.39 | 0.16 | 0.19 | 0.21 | 0.10 | 0.20 | 0.24 |
| 700.0 | 54.05 | 54.46 | 54.47 | 0.15 | 0.19 | 0.22 | 0.10 | 0.19 | 0.24 |
| 800.0 | 60.14 | 60.03 | 60.15 | 0.16 | 0.19 | 0.22 | 0.08 | 0.19 | 0.25 |
| 810.0 | 60.95 | 61.36 | 61.05 | 0.16 | 0.19 | 0.23 | 0.08 | 0.19 | 0.25 |
| 900.0 | 62.69 | 62.62 | 60.01 | 0.15 | 0.19 | 0.23 | 0.07 | 0.20 | 0.26 |
| 1000.0 | 49.59 | 49.13 | 48.44 | 0.15 | 0.20 | 0.24 | 0.07 | 0.21 | 0.28 |
| 1100.0 | 40.81 | 40.11 | 40.02 | 0.16 | 0.22 | 0.26 | 0.12 | 0.27 | 0.34 |
| 1200.0 | 32.48 | 31.93 | 31.48 | 0.19 | 0.26 | 0.32 | 0.16 | 0.34 | 0.45 |
| 1300.0 | 19.69 | 19.14 | 18.79 | 0.54 | 0.72 | 0.85 | 0.77 | 1.18 | 1.46 |
| 1400.0 | 18.68 | 19.38 | 19.85 | 0.43 | 0.48 | 0.53 | 0.53 | 0.69 | 0.77 |
| 1500.0 | 24.37 | 24.45 | 24.62 | 0.19 | 0.28 | 0.35 | 0.15 | 0.37 | 0.50 |

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Surface Mount Low Pass Filter

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Typical Performance Data

| FREQ. (MHz) | GROUP DELAY (nsec) | | |
|----------------|-----------------------|----------|----------|
| | @ -40° C | @ +25° C | @ +85° C |
| 0.5 | 23.10 | 23.12 | 23.19 |
| 1 | 23.22 | 23.19 | 23.27 |
| 3 | 23.58 | 23.63 | 23.66 |
| 5 | 23.73 | 23.74 | 23.78 |
| 7 | 24.08 | 24.08 | 24.11 |
| 8 | 24.31 | 24.32 | 24.38 |
| 9 | 24.69 | 24.69 | 24.73 |
| 10 | 25.06 | 25.05 | 25.08 |
| 11 | 25.36 | 25.37 | 25.44 |
| 12 | 25.91 | 25.96 | 25.98 |
| 13 | 26.47 | 26.47 | 26.58 |
| 14 | 27.13 | 27.16 | 27.12 |
| 15 | 27.71 | 27.78 | 27.81 |
| 16 | 28.47 | 28.56 | 28.56 |
| 17 | 29.43 | 29.47 | 29.47 |
| 18 | 30.35 | 30.45 | 30.52 |
| 19 | 31.59 | 31.68 | 31.76 |
| 20 | 32.92 | 33.02 | 33.08 |
| 21 | 34.52 | 34.63 | 34.71 |
| 22 | 36.35 | 36.45 | 36.56 |
| 23 | 38.57 | 38.72 | 38.78 |
| 24 | 41.15 | 41.26 | 41.41 |
| 25 | 43.62 | 43.85 | 44.03 |
| 26 | 48.80 | 49.16 | 49.41 |
| 27 | 55.39 | 55.81 | 56.13 |
| 28 | 64.41 | 64.55 | 65.05 |
| 29 | 80.02 | 80.35 | 80.66 |
| 30 | 87.94 | 87.72 | 87.26 |
| 31 | 80.20 | 79.61 | 78.97 |
| 32 | 64.12 | 63.49 | 63.01 |
| 33 | 48.69 | 48.09 | 47.70 |
| 34 | 37.63 | 37.20 | 36.95 |
| 35 | 29.81 | 29.66 | 29.50 |
| 36 | 24.60 | 24.53 | 24.53 |
| 37 | 21.09 | 20.62 | 20.91 |
| 38 | 18.28 | 18.28 | 18.18 |
| 39 | 16.03 | 15.90 | 15.82 |
| 40 | 14.44 | 13.75 | 13.95 |
| 41 | 11.58 | 13.27 | 13.68 |
| 42 | 11.66 | 12.48 | 11.91 |
| 43 | 9.95 | 11.60 | 11.20 |
| 44 | 10.25 | 13.63 | 7.61 |
| 45 | 9.71 | 12.08 | 15.89 |
| 46 | 11.86 | 12.41 | 19.25 |
| 47 | 11.91 | 12.78 | 13.36 |
| 48 | 9.24 | 11.48 | 8.70 |
| 49 | 15.25 | 14.24 | 12.85 |
| 50 | 8.02 | 13.61 | 14.60 |
| 51 | 15.39 | 5.30 | 4.21 |
| 52 | 9.16 | 12.00 | 8.23 |
| 53 | 9.71 | 12.13 | 6.40 |
| 54 | 1.97 | 8.12 | 7.75 |
| 55 | 3.83 | 4.33 | 4.13 |
| 56 | 6.06 | 3.90 | 2.97 |
| 57 | 3.10 | 6.68 | 1.86 |

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