

Surface Mount Diplexer

RDP-100-2R15+

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | | | | | | CROSS OVER ISOLATION (dB) | | |
|--------------------|------------------------|--------|--------|----------------|--------|--------|------------------------------|--------|--------|
| | Low Pass Port | | | High Pass Port | | | (between LPF and HPF) | | |
| | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C |
| 1 | 0.14 | 0.17 | 0.19 | 97.24 | 90.85 | 86.36 | 90.89 | 88.23 | 90.08 |
| 5 | 0.15 | 0.18 | 0.20 | 92.61 | 97.63 | 94.94 | 86.71 | 89.68 | 93.58 |
| 10 | 0.15 | 0.18 | 0.21 | 123.66 | 104.89 | 106.83 | 101.33 | 102.81 | 106.88 |
| 50 | 0.25 | 0.28 | 0.31 | 95.33 | 95.38 | 97.05 | 93.59 | 92.81 | 94.31 |
| 100 | 0.42 | 0.47 | 0.51 | 94.14 | 94.88 | 93.61 | 91.89 | 93.27 | 91.55 |
| 130 | 0.50 | 0.57 | 0.61 | 85.83 | 88.18 | 89.13 | 87.46 | 86.05 | 88.92 |
| 160 | 1.26 | 1.40 | 1.51 | 79.08 | 79.38 | 78.68 | 79.36 | 79.55 | 79.23 |
| 190 | 5.49 | 5.70 | 5.93 | 69.10 | 69.13 | 68.88 | 73.73 | 73.66 | 73.70 |
| 200 | 7.62 | 7.82 | 8.05 | 65.74 | 65.71 | 65.41 | 72.77 | 72.74 | 72.92 |
| 250 | 18.47 | 18.56 | 18.65 | 52.37 | 52.26 | 52.18 | 71.21 | 71.16 | 71.17 |
| 280 | 24.11 | 24.20 | 24.23 | 46.09 | 45.99 | 45.86 | 70.81 | 70.90 | 70.38 |
| 300 | 27.55 | 27.65 | 27.68 | 42.30 | 42.23 | 42.07 | 70.32 | 70.30 | 70.11 |
| 350 | 35.34 | 35.48 | 35.53 | 33.85 | 33.84 | 33.73 | 69.62 | 69.98 | 69.96 |
| 370 | 38.23 | 38.39 | 38.46 | 30.81 | 30.81 | 30.73 | 69.76 | 69.66 | 69.64 |
| 400 | 42.40 | 42.57 | 42.68 | 26.49 | 26.51 | 26.47 | 69.28 | 69.41 | 69.33 |
| 430 | 46.45 | 46.61 | 46.75 | 22.46 | 22.46 | 22.47 | 69.09 | 69.24 | 69.35 |
| 460 | 50.46 | 50.65 | 50.83 | 18.65 | 18.66 | 18.66 | 69.26 | 69.34 | 69.31 |
| 490 | 54.57 | 54.73 | 54.89 | 15.05 | 15.04 | 15.06 | 69.49 | 69.68 | 69.75 |
| 500 | 55.93 | 56.17 | 56.31 | 13.91 | 13.88 | 13.90 | 69.62 | 69.75 | 69.77 |
| 550 | 63.72 | 63.97 | 64.26 | 8.63 | 8.61 | 8.62 | 70.71 | 70.81 | 70.89 |
| 580 | 69.81 | 70.01 | 70.40 | 5.98 | 5.98 | 6.00 | 72.22 | 72.12 | 72.18 |
| 610 | 78.30 | 79.18 | 80.24 | 3.87 | 3.91 | 3.94 | 73.55 | 73.86 | 73.61 |
| 640 | 81.58 | 81.92 | 84.14 | 2.38 | 2.45 | 2.48 | 74.83 | 74.96 | 74.62 |
| 700 | 75.21 | 74.62 | 74.73 | 0.93 | 1.01 | 1.04 | 74.38 | 74.80 | 74.53 |
| 750 | 74.00 | 74.08 | 74.04 | 0.52 | 0.60 | 0.64 | 74.07 | 74.04 | 73.98 |
| 770 | 73.95 | 74.27 | 74.16 | 0.44 | 0.52 | 0.57 | 74.09 | 74.10 | 73.95 |
| 800 | 74.14 | 73.90 | 73.81 | 0.36 | 0.44 | 0.49 | 73.73 | 73.79 | 74.21 |
| 850 | 74.25 | 73.96 | 74.18 | 0.30 | 0.37 | 0.42 | 74.52 | 74.26 | 74.37 |
| 900 | 74.48 | 74.66 | 74.81 | 0.26 | 0.33 | 0.38 | 74.99 | 75.09 | 75.00 |
| 950 | 74.93 | 74.89 | 75.33 | 0.23 | 0.30 | 0.35 | 75.49 | 75.66 | 75.62 |
| 1000 | 75.88 | 76.10 | 76.17 | 0.21 | 0.28 | 0.33 | 76.54 | 76.52 | 76.45 |
| 1050 | 75.88 | 76.30 | 76.24 | 0.19 | 0.27 | 0.31 | 78.43 | 77.60 | 78.29 |
| 1100 | 76.89 | 77.36 | 77.57 | 0.18 | 0.25 | 0.29 | 77.82 | 78.55 | 78.52 |
| 1150 | 77.72 | 78.13 | 78.25 | 0.17 | 0.24 | 0.28 | 79.41 | 78.98 | 78.79 |
| 1200 | 78.55 | 78.30 | 78.53 | 0.16 | 0.23 | 0.27 | 79.41 | 79.78 | 80.04 |
| 1250 | 78.78 | 79.93 | 80.54 | 0.16 | 0.22 | 0.26 | 81.16 | 80.90 | 81.28 |
| 1300 | 80.99 | 81.24 | 82.17 | 0.15 | 0.22 | 0.26 | 81.95 | 82.56 | 82.90 |
| 1350 | 85.54 | 86.42 | 85.95 | 0.14 | 0.21 | 0.25 | 85.77 | 88.95 | 89.71 |
| 1402 | 84.37 | 84.20 | 84.89 | 0.14 | 0.20 | 0.24 | 88.04 | 86.56 | 88.40 |
| 1450 | 86.62 | 85.19 | 86.11 | 0.13 | 0.20 | 0.24 | 89.85 | 86.38 | 86.65 |
| 1510 | 83.29 | 83.85 | 85.02 | 0.12 | 0.19 | 0.24 | 83.81 | 83.44 | 85.06 |
| 1550 | 83.34 | 85.33 | 82.82 | 0.12 | 0.19 | 0.23 | 81.78 | 82.61 | 82.35 |
| 1602 | 85.13 | 87.00 | 89.43 | 0.12 | 0.19 | 0.23 | 86.04 | 87.95 | 88.37 |
| 1650 | 88.43 | 86.00 | 88.38 | 0.11 | 0.18 | 0.23 | 90.62 | 91.96 | 95.36 |
| 1710 | 87.59 | 85.69 | 88.96 | 0.11 | 0.18 | 0.23 | 87.55 | 88.96 | 86.71 |
| 1750 | 86.48 | 84.82 | 87.49 | 0.10 | 0.18 | 0.22 | 86.81 | 88.24 | 85.80 |
| 1822 | 82.45 | 81.47 | 83.49 | 0.10 | 0.17 | 0.22 | 85.75 | 87.22 | 88.64 |
| 1850 | 84.36 | 83.98 | 84.01 | 0.10 | 0.17 | 0.22 | 89.64 | 90.42 | 90.04 |
| 1886 | 78.30 | 76.55 | 76.74 | 0.09 | 0.17 | 0.22 | 84.12 | 81.53 | 80.39 |
| 1950 | 78.46 | 78.39 | 77.94 | 0.09 | 0.16 | 0.22 | 81.68 | 81.97 | 80.32 |
| 2002 | 78.42 | 78.36 | 78.08 | 0.08 | 0.16 | 0.22 | 79.98 | 78.82 | 78.83 |
| 2006 | 79.26 | 77.97 | 78.46 | 0.08 | 0.16 | 0.22 | 79.03 | 79.71 | 78.99 |
| 2010 | 78.31 | 78.08 | 78.97 | 0.08 | 0.16 | 0.22 | 79.25 | 79.49 | 78.45 |
| 2014 | 79.01 | 78.31 | 78.19 | 0.08 | 0.16 | 0.22 | 79.99 | 79.59 | 79.16 |
| 2018 | 78.31 | 78.82 | 77.86 | 0.08 | 0.16 | 0.22 | 79.60 | 79.18 | 79.35 |
| 2022 | 78.82 | 77.83 | 77.69 | 0.08 | 0.16 | 0.22 | 80.78 | 79.31 | 78.70 |
| 2026 | 77.97 | 78.39 | 77.73 | 0.08 | 0.16 | 0.22 | 79.97 | 79.18 | 78.51 |
| 2050 | 77.09 | 76.98 | 76.90 | 0.07 | 0.15 | 0.22 | 78.49 | 77.71 | 77.62 |
| 2102 | 75.63 | 75.69 | 75.22 | 0.07 | 0.15 | 0.21 | 77.30 | 76.89 | 76.54 |
| 2150 | 74.00 | 73.99 | 73.54 | 0.06 | 0.15 | 0.21 | 78.20 | 77.42 | 77.94 |



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Typical Performance Data

| FREQUENCY (MHz) | RETURN LOSS (dB) | | | | | | | | |
|--------------------|------------------|--------|--------|---------------|--------|--------|----------------|--------|--------|
| | Common port | | | Low Pass Port | | | High Pass Port | | |
| | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C | @-40°C | @+25°C | @+85°C |
| 1 | 39.02 | 37.11 | 35.32 | 40.10 | 37.82 | 35.95 | 0.05 | 0.05 | 0.05 |
| 5 | 38.11 | 36.35 | 34.65 | 39.36 | 37.25 | 35.50 | 0.05 | 0.05 | 0.05 |
| 10 | 36.60 | 34.98 | 33.46 | 38.86 | 36.78 | 35.05 | 0.05 | 0.04 | 0.05 |
| 50 | 26.24 | 25.82 | 25.41 | 37.03 | 38.03 | 39.01 | 0.02 | 0.03 | 0.03 |
| 100 | 21.09 | 20.73 | 20.25 | 22.17 | 21.75 | 21.12 | 0.01 | 0.02 | 0.03 |
| 130 | 25.51 | 25.88 | 26.45 | 26.53 | 27.11 | 28.13 | 0.01 | 0.02 | 0.03 |
| 160 | 9.59 | 9.38 | 9.21 | 9.76 | 9.56 | 9.40 | 0.00 | 0.02 | 0.03 |
| 190 | 2.61 | 2.66 | 2.65 | 2.53 | 2.56 | 2.54 | 0.01 | 0.03 | 0.04 |
| 200 | 1.80 | 1.88 | 1.90 | 1.68 | 1.74 | 1.75 | 0.01 | 0.03 | 0.04 |
| 250 | 0.68 | 0.76 | 0.83 | 0.51 | 0.57 | 0.62 | 0.02 | 0.04 | 0.06 |
| 280 | 0.54 | 0.61 | 0.68 | 0.37 | 0.42 | 0.47 | 0.03 | 0.06 | 0.07 |
| 300 | 0.48 | 0.55 | 0.62 | 0.32 | 0.37 | 0.41 | 0.04 | 0.07 | 0.08 |
| 350 | 0.39 | 0.46 | 0.51 | 0.23 | 0.28 | 0.32 | 0.07 | 0.10 | 0.13 |
| 370 | 0.38 | 0.43 | 0.49 | 0.21 | 0.25 | 0.29 | 0.09 | 0.13 | 0.15 |
| 400 | 0.36 | 0.42 | 0.47 | 0.18 | 0.22 | 0.25 | 0.12 | 0.16 | 0.19 |
| 430 | 0.38 | 0.44 | 0.48 | 0.15 | 0.19 | 0.22 | 0.18 | 0.23 | 0.25 |
| 460 | 0.42 | 0.49 | 0.54 | 0.13 | 0.17 | 0.20 | 0.26 | 0.32 | 0.35 |
| 490 | 0.55 | 0.63 | 0.68 | 0.12 | 0.16 | 0.19 | 0.40 | 0.47 | 0.51 |
| 500 | 0.62 | 0.70 | 0.75 | 0.11 | 0.15 | 0.18 | 0.47 | 0.55 | 0.59 |
| 550 | 1.27 | 1.38 | 1.46 | 0.09 | 0.12 | 0.15 | 1.14 | 1.25 | 1.32 |
| 580 | 2.12 | 2.26 | 2.36 | 0.07 | 0.11 | 0.14 | 1.98 | 2.12 | 2.21 |
| 610 | 3.49 | 3.66 | 3.79 | 0.06 | 0.10 | 0.13 | 3.36 | 3.52 | 3.65 |
| 640 | 5.51 | 5.70 | 5.90 | 0.05 | 0.09 | 0.12 | 5.33 | 5.51 | 5.70 |
| 700 | 11.09 | 11.41 | 11.88 | 0.04 | 0.07 | 0.11 | 10.84 | 11.15 | 11.61 |
| 750 | 17.01 | 17.37 | 18.30 | 0.02 | 0.06 | 0.09 | 16.71 | 17.05 | 17.98 |
| 770 | 19.83 | 20.06 | 21.32 | 0.02 | 0.06 | 0.09 | 19.53 | 19.76 | 20.97 |
| 800 | 24.80 | 24.73 | 26.72 | 0.02 | 0.06 | 0.09 | 24.39 | 24.31 | 26.19 |
| 850 | 35.77 | 36.54 | 43.49 | 0.00 | 0.04 | 0.08 | 34.91 | 36.13 | 42.02 |
| 900 | 50.27 | 40.88 | 37.75 | 0.01 | 0.04 | 0.07 | 40.07 | 37.52 | 35.62 |
| 950 | 36.12 | 32.85 | 32.46 | 0.01 | 0.03 | 0.07 | 34.18 | 31.16 | 30.69 |
| 1000 | 31.42 | 30.14 | 30.91 | 0.02 | 0.03 | 0.06 | 30.06 | 28.70 | 29.04 |
| 1050 | 28.53 | 28.30 | 29.88 | 0.02 | 0.03 | 0.06 | 27.41 | 27.13 | 27.96 |
| 1100 | 26.98 | 27.20 | 28.97 | 0.02 | 0.02 | 0.06 | 26.32 | 26.26 | 27.43 |
| 1150 | 26.10 | 26.52 | 28.38 | 0.03 | 0.02 | 0.05 | 25.66 | 25.78 | 27.05 |
| 1200 | 25.45 | 25.99 | 28.00 | 0.03 | 0.02 | 0.06 | 25.07 | 25.38 | 26.71 |
| 1250 | 24.44 | 25.22 | 27.06 | 0.04 | 0.01 | 0.05 | 24.33 | 24.76 | 26.17 |
| 1300 | 23.68 | 24.64 | 26.48 | 0.04 | 0.01 | 0.05 | 23.54 | 24.27 | 25.67 |
| 1350 | 23.19 | 24.24 | 26.12 | 0.04 | 0.01 | 0.05 | 23.17 | 24.05 | 25.54 |
| 1402 | 22.97 | 24.00 | 25.66 | 0.04 | 0.00 | 0.04 | 22.91 | 23.71 | 25.15 |
| 1450 | 23.05 | 23.69 | 25.37 | 0.05 | 0.01 | 0.05 | 22.98 | 23.49 | 24.83 |
| 1510 | 22.97 | 23.33 | 24.82 | 0.05 | 0.01 | 0.05 | 23.01 | 23.24 | 24.46 |
| 1550 | 22.37 | 23.04 | 24.16 | 0.06 | 0.00 | 0.04 | 22.47 | 22.96 | 23.98 |
| 1602 | 22.10 | 22.97 | 24.00 | 0.05 | 0.00 | 0.04 | 22.08 | 22.88 | 23.69 |
| 1650 | 21.82 | 23.03 | 23.68 | 0.05 | 0.00 | 0.04 | 21.99 | 23.05 | 23.64 |
| 1710 | 21.49 | 22.89 | 23.20 | 0.06 | 0.00 | 0.04 | 21.66 | 22.92 | 23.22 |
| 1750 | 21.71 | 22.96 | 23.26 | 0.05 | 0.00 | 0.04 | 21.70 | 22.94 | 23.09 |
| 1822 | 21.75 | 22.97 | 22.86 | 0.06 | 0.00 | 0.04 | 21.81 | 23.02 | 22.80 |
| 1850 | 21.91 | 23.15 | 22.93 | 0.06 | 0.00 | 0.04 | 21.95 | 23.14 | 22.86 |
| 1886 | 21.97 | 23.45 | 22.91 | 0.05 | 0.00 | 0.04 | 22.01 | 23.36 | 22.81 |
| 1950 | 22.01 | 23.62 | 22.84 | 0.06 | 0.00 | 0.04 | 22.11 | 23.67 | 22.88 |
| 2002 | 22.65 | 23.84 | 23.04 | 0.06 | 0.00 | 0.04 | 22.79 | 24.01 | 23.06 |
| 2006 | 22.70 | 23.85 | 23.03 | 0.05 | 0.00 | 0.04 | 22.81 | 24.00 | 23.04 |
| 2010 | 22.78 | 23.90 | 23.04 | 0.05 | 0.01 | 0.04 | 22.83 | 24.00 | 23.03 |
| 2014 | 22.81 | 23.90 | 23.02 | 0.05 | 0.01 | 0.04 | 22.89 | 24.02 | 23.03 |
| 2018 | 22.83 | 23.89 | 22.99 | 0.05 | 0.01 | 0.04 | 22.95 | 24.03 | 23.03 |
| 2022 | 22.87 | 23.91 | 22.97 | 0.05 | 0.01 | 0.04 | 23.01 | 24.06 | 23.04 |
| 2026 | 22.91 | 23.92 | 22.95 | 0.06 | 0.00 | 0.04 | 23.09 | 24.08 | 23.04 |
| 2050 | 23.30 | 24.01 | 22.91 | 0.05 | 0.00 | 0.04 | 23.64 | 24.26 | 23.08 |
| 2102 | 24.37 | 24.42 | 23.26 | 0.06 | 0.00 | 0.04 | 24.79 | 24.79 | 23.49 |
| 2150 | 24.84 | 24.96 | 23.68 | 0.05 | 0.00 | 0.05 | 25.31 | 25.44 | 23.86 |