

Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ 0°C

| FREQUENCY (MHz) | Attenuation relative to Insertion Loss (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 0.29 | 9.88 | 14.90 | 19.33 | 28.99 | 38.86 | 48.30 | 57.97 |
| 5 | 0.29 | 9.88 | 14.90 | 19.33 | 28.99 | 38.86 | 48.30 | 57.97 |
| 10 | 0.29 | 9.88 | 14.90 | 19.33 | 28.99 | 38.86 | 48.30 | 57.98 |
| 20 | 0.29 | 9.88 | 14.90 | 19.33 | 28.99 | 38.86 | 48.30 | 57.98 |
| 50 | 0.29 | 9.87 | 14.90 | 19.32 | 28.99 | 38.85 | 48.29 | 57.96 |
| 100 | 0.29 | 9.87 | 14.89 | 19.32 | 28.98 | 38.85 | 48.29 | 57.96 |
| 200 | 0.29 | 9.85 | 14.87 | 19.30 | 28.96 | 38.83 | 48.26 | 57.94 |
| 500 | 0.28 | 9.79 | 14.80 | 19.22 | 28.89 | 38.76 | 48.20 | 57.88 |
| 750 | 0.28 | 9.73 | 14.74 | 19.15 | 28.83 | 38.71 | 48.15 | 57.83 |
| 1000 | 0.28 | 9.74 | 14.75 | 19.16 | 28.85 | 38.75 | 48.19 | 57.87 |
| 1500 | 0.28 | 9.86 | 14.89 | 19.33 | 29.05 | 38.97 | 48.44 | 58.13 |
| 2000 | 0.28 | 9.81 | 14.83 | 19.36 | 29.08 | 39.02 | 48.53 | 58.25 |
| 2500 | 0.27 | 9.74 | 14.75 | 19.29 | 29.08 | 39.06 | 48.61 | 58.39 |
| 3000 | 0.27 | 9.84 | 14.87 | 19.46 | 29.31 | 39.38 | 48.98 | 58.84 |
| 3500 | 0.28 | 9.81 | 14.83 | 19.58 | 29.46 | 39.57 | 49.25 | 59.18 |
| 4000 | 0.28 | 9.80 | 14.82 | 19.65 | 29.60 | 39.74 | 49.49 | 59.53 |
| 4500 | 0.28 | 9.88 | 14.92 | 19.76 | 29.81 | 40.05 | 49.89 | 60.04 |
| 5000 | 0.29 | 9.93 | 15.00 | 20.01 | 30.11 | 40.46 | 50.43 | 60.65 |
| 5500 | 0.30 | 10.02 | 15.14 | 20.33 | 30.45 | 40.86 | 50.90 | 61.22 |
| 6000 | 0.30 | 10.03 | 15.19 | 20.38 | 30.53 | 40.93 | 51.04 | 61.48 |
| 7000 | 0.34 | 10.24 | 15.46 | 20.82 | 30.90 | 41.47 | 51.76 | 61.96 |
| 7500 | 0.33 | 9.88 | 15.04 | 20.63 | 30.55 | 40.88 | 51.07 | 61.38 |
| 8000 | 0.32 | 10.08 | 15.27 | 20.25 | 30.20 | 40.37 | 50.64 | 60.62 |

| FREQUENCY (MHz) | Attenuation accuracy relative to nominal attenuation setting (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | -0.04 | 0.12 | 0.10 | 0.67 | 1.01 | 1.14 | 1.70 | 2.03 |
| 5 | -0.04 | 0.12 | 0.10 | 0.67 | 1.01 | 1.14 | 1.70 | 2.03 |
| 10 | -0.04 | 0.12 | 0.10 | 0.67 | 1.01 | 1.14 | 1.70 | 2.03 |
| 20 | -0.04 | 0.12 | 0.10 | 0.67 | 1.01 | 1.14 | 1.70 | 2.02 |
| 50 | -0.04 | 0.13 | 0.10 | 0.68 | 1.01 | 1.15 | 1.71 | 2.04 |
| 100 | -0.04 | 0.13 | 0.11 | 0.68 | 1.02 | 1.15 | 1.72 | 2.04 |
| 200 | -0.04 | 0.15 | 0.13 | 0.70 | 1.04 | 1.17 | 1.74 | 2.06 |
| 500 | -0.03 | 0.21 | 0.20 | 0.78 | 1.11 | 1.24 | 1.80 | 2.13 |
| 750 | -0.03 | 0.27 | 0.26 | 0.85 | 1.17 | 1.29 | 1.85 | 2.17 |
| 1000 | -0.03 | 0.27 | 0.25 | 0.84 | 1.15 | 1.25 | 1.81 | 2.13 |
| 1500 | -0.03 | 0.14 | 0.11 | 0.67 | 0.95 | 1.03 | 1.56 | 1.87 |
| 2000 | -0.03 | 0.19 | 0.17 | 0.64 | 0.92 | 0.98 | 1.47 | 1.75 |
| 2500 | -0.02 | 0.26 | 0.25 | 0.71 | 0.92 | 0.94 | 1.39 | 1.61 |
| 3000 | -0.02 | 0.16 | 0.13 | 0.54 | 0.69 | 0.62 | 1.02 | 1.16 |
| 3500 | -0.03 | 0.19 | 0.17 | 0.42 | 0.54 | 0.43 | 0.75 | 0.82 |
| 4000 | -0.03 | 0.20 | 0.18 | 0.35 | 0.40 | 0.26 | 0.51 | 0.47 |
| 4500 | -0.03 | 0.13 | 0.08 | 0.24 | 0.19 | -0.04 | 0.11 | -0.03 |
| 5000 | -0.04 | 0.07 | 0.00 | -0.01 | -0.11 | -0.46 | -0.42 | -0.65 |
| 5500 | -0.04 | -0.02 | -0.14 | -0.33 | -0.45 | -0.86 | -0.90 | -1.22 |
| 6000 | -0.05 | -0.03 | -0.19 | -0.38 | -0.53 | -0.93 | -1.04 | -1.47 |
| 7000 | -0.09 | -0.24 | -0.46 | -0.82 | -0.90 | -1.47 | -1.76 | -1.96 |
| 7500 | -0.08 | 0.12 | -0.04 | -0.63 | -0.55 | -0.88 | -1.07 | -1.38 |
| 8000 | -0.07 | -0.08 | -0.27 | -0.25 | -0.20 | -0.37 | -0.64 | -0.62 |

Notes

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ 0°C

| FREQUENCY (MHz) | Input VSWR (:1) | | | | | | | |
|--------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.45 | 1.15 | 1.16 | 1.21 | 1.20 | 1.14 | 1.03 | 1.02 |
| 5 | 1.45 | 1.15 | 1.16 | 1.21 | 1.20 | 1.14 | 1.02 | 1.01 |
| 10 | 1.45 | 1.15 | 1.16 | 1.21 | 1.20 | 1.14 | 1.02 | 1.01 |
| 20 | 1.45 | 1.15 | 1.16 | 1.21 | 1.20 | 1.14 | 1.02 | 1.00 |
| 50 | 1.45 | 1.15 | 1.16 | 1.21 | 1.20 | 1.14 | 1.02 | 1.00 |
| 100 | 1.44 | 1.15 | 1.17 | 1.22 | 1.21 | 1.14 | 1.02 | 1.01 |
| 200 | 1.42 | 1.15 | 1.17 | 1.22 | 1.21 | 1.15 | 1.03 | 1.02 |
| 500 | 1.26 | 1.11 | 1.13 | 1.21 | 1.20 | 1.13 | 1.01 | 1.01 |
| 750 | 1.14 | 1.10 | 1.13 | 1.23 | 1.21 | 1.14 | 1.02 | 1.01 |
| 1000 | 1.12 | 1.10 | 1.14 | 1.25 | 1.22 | 1.14 | 1.02 | 1.01 |
| 1500 | 1.34 | 1.12 | 1.14 | 1.23 | 1.20 | 1.12 | 1.02 | 1.01 |
| 2000 | 1.29 | 1.10 | 1.11 | 1.14 | 1.14 | 1.09 | 1.04 | 1.03 |
| 2500 | 1.08 | 1.06 | 1.08 | 1.13 | 1.13 | 1.08 | 1.07 | 1.06 |
| 3000 | 1.22 | 1.09 | 1.10 | 1.25 | 1.21 | 1.10 | 1.10 | 1.08 |
| 3500 | 1.30 | 1.12 | 1.12 | 1.28 | 1.23 | 1.12 | 1.13 | 1.09 |
| 4000 | 1.15 | 1.11 | 1.12 | 1.12 | 1.14 | 1.10 | 1.12 | 1.09 |
| 4500 | 1.18 | 1.11 | 1.12 | 1.21 | 1.18 | 1.10 | 1.12 | 1.08 |
| 5000 | 1.23 | 1.13 | 1.15 | 1.35 | 1.26 | 1.11 | 1.10 | 1.06 |
| 5500 | 1.11 | 1.08 | 1.11 | 1.16 | 1.10 | 1.05 | 1.06 | 1.02 |
| 6000 | 1.07 | 1.11 | 1.14 | 1.15 | 1.11 | 1.13 | 1.14 | 1.12 |
| 7000 | 1.23 | 1.27 | 1.27 | 1.36 | 1.30 | 1.34 | 1.51 | 1.44 |
| 7500 | 1.78 | 1.46 | 1.44 | 1.79 | 1.66 | 1.54 | 1.75 | 1.64 |
| 8000 | 1.64 | 1.51 | 1.49 | 1.55 | 1.55 | 1.58 | 1.90 | 1.74 |

| FREQUENCY (MHz) | Output VSWR (:1) | | | | | | | |
|--------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.47 | 1.15 | 1.04 | 1.05 | 1.02 | 1.03 | 1.03 | 1.03 |
| 5 | 1.47 | 1.15 | 1.04 | 1.05 | 1.01 | 1.03 | 1.03 | 1.02 |
| 10 | 1.47 | 1.15 | 1.03 | 1.04 | 1.01 | 1.02 | 1.02 | 1.02 |
| 20 | 1.47 | 1.15 | 1.03 | 1.04 | 1.00 | 1.02 | 1.02 | 1.01 |
| 50 | 1.47 | 1.15 | 1.03 | 1.04 | 1.00 | 1.02 | 1.02 | 1.01 |
| 100 | 1.46 | 1.16 | 1.04 | 1.05 | 1.01 | 1.01 | 1.01 | 1.01 |
| 200 | 1.43 | 1.16 | 1.04 | 1.05 | 1.02 | 1.01 | 1.01 | 1.01 |
| 500 | 1.27 | 1.14 | 1.03 | 1.04 | 1.01 | 1.02 | 1.02 | 1.01 |
| 750 | 1.10 | 1.13 | 1.03 | 1.04 | 1.00 | 1.02 | 1.02 | 1.01 |
| 1000 | 1.11 | 1.13 | 1.03 | 1.04 | 1.01 | 1.01 | 1.01 | 1.01 |
| 1500 | 1.36 | 1.14 | 1.02 | 1.03 | 1.01 | 1.02 | 1.02 | 1.02 |
| 2000 | 1.35 | 1.12 | 1.03 | 1.05 | 1.04 | 1.04 | 1.04 | 1.04 |
| 2500 | 1.12 | 1.11 | 1.06 | 1.09 | 1.08 | 1.06 | 1.06 | 1.08 |
| 3000 | 1.27 | 1.18 | 1.09 | 1.12 | 1.11 | 1.08 | 1.08 | 1.10 |
| 3500 | 1.53 | 1.27 | 1.14 | 1.15 | 1.14 | 1.10 | 1.10 | 1.13 |
| 4000 | 1.35 | 1.23 | 1.15 | 1.14 | 1.14 | 1.11 | 1.11 | 1.13 |
| 4500 | 1.23 | 1.23 | 1.15 | 1.11 | 1.13 | 1.11 | 1.11 | 1.12 |
| 5000 | 1.44 | 1.28 | 1.16 | 1.06 | 1.10 | 1.11 | 1.11 | 1.10 |
| 5500 | 1.30 | 1.15 | 1.11 | 1.07 | 1.08 | 1.12 | 1.12 | 1.08 |
| 6000 | 1.14 | 1.05 | 1.12 | 1.17 | 1.10 | 1.14 | 1.14 | 1.11 |
| 7000 | 1.28 | 1.22 | 1.26 | 1.43 | 1.34 | 1.30 | 1.30 | 1.34 |
| 7500 | 2.01 | 1.56 | 1.42 | 1.52 | 1.47 | 1.40 | 1.40 | 1.47 |
| 8000 | 1.75 | 1.61 | 1.49 | 1.54 | 1.56 | 1.47 | 1.47 | 1.57 |

Notes

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ 0°C

| FREQUENCY (MHz) | IP3 (dBm) | Insertion Loss @P _{IN} =0 dBm (dB) | Insertion Loss @P _{IN} =+28 dBm (dB) |
|--------------------|--------------|---|---|
| 1 | 48.39 | 2.18 | 2.24 |
| 10 | 52.64 | 2.25 | 2.30 |
| 20 | 57.35 | 2.03 | 2.08 |
| 50 | 50.81 | 1.64 | 1.71 |
| 100 | 51.54 | 2.05 | 2.10 |
| 200 | 53.30 | 2.52 | 2.59 |
| 500 | 56.26 | 2.59 | 2.63 |
| 750 | 54.26 | 2.69 | 2.69 |
| 1000 | 55.42 | 3.06 | 3.07 |
| 1500 | 54.33 | 2.73 | 2.77 |
| 2000 | 54.66 | 2.98 | 3.03 |
| 2500 | 54.72 | 3.44 | 3.45 |
| 3000 | 55.70 | 3.65 | 3.71 |
| 3500 | 51.16 | 4.23 | 4.28 |
| 4000 | 53.86 | 4.37 | 4.38 |
| 4500 | 52.59 | 4.94 | 5.13 |
| 5000 | 51.32 | 5.38 | 5.56 |
| 5500 | 49.63 | 5.43 | 5.34 |
| 6000 | 50.14 | 5.63 | 5.62 |
| 6500 | 48.21 | 5.75 | 5.77 |
| 7000 | 49.62 | 5.82 | 5.89 |
| 7500 | 52.51 | 7.02 | 7.19 |
| 8000 | 47.52 | 8.16 | 8.71 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +25°C

| FREQUENCY (MHz) | Attenuation relative to Insertion Loss (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 0.28 | 9.83 | 14.83 | 19.27 | 28.90 | 38.74 | 48.19 | 57.82 |
| 5 | 0.28 | 9.82 | 14.83 | 19.27 | 28.90 | 38.75 | 48.19 | 57.82 |
| 10 | 0.28 | 9.82 | 14.83 | 19.27 | 28.91 | 38.75 | 48.19 | 57.83 |
| 20 | 0.28 | 9.82 | 14.83 | 19.27 | 28.91 | 38.75 | 48.19 | 57.83 |
| 50 | 0.28 | 9.82 | 14.82 | 19.27 | 28.90 | 38.75 | 48.18 | 57.82 |
| 100 | 0.28 | 9.82 | 14.82 | 19.26 | 28.90 | 38.74 | 48.18 | 57.82 |
| 200 | 0.28 | 9.80 | 14.80 | 19.25 | 28.88 | 38.73 | 48.17 | 57.80 |
| 500 | 0.28 | 9.73 | 14.72 | 19.17 | 28.80 | 38.64 | 48.09 | 57.72 |
| 750 | 0.27 | 9.68 | 14.67 | 19.11 | 28.75 | 38.60 | 48.04 | 57.67 |
| 1000 | 0.27 | 9.69 | 14.68 | 19.12 | 28.77 | 38.63 | 48.08 | 57.72 |
| 1500 | 0.27 | 9.81 | 14.81 | 19.28 | 28.97 | 38.86 | 48.34 | 57.99 |
| 2000 | 0.27 | 9.76 | 14.75 | 19.31 | 29.01 | 38.92 | 48.44 | 58.12 |
| 2500 | 0.27 | 9.70 | 14.69 | 19.28 | 29.03 | 38.98 | 48.54 | 58.29 |
| 3000 | 0.27 | 9.81 | 14.82 | 19.44 | 29.26 | 39.30 | 48.92 | 58.75 |
| 3500 | 0.27 | 9.78 | 14.78 | 19.56 | 29.42 | 39.50 | 49.21 | 59.12 |
| 4000 | 0.27 | 9.78 | 14.78 | 19.66 | 29.59 | 39.70 | 49.50 | 59.53 |
| 4500 | 0.27 | 9.85 | 14.89 | 19.78 | 29.82 | 40.02 | 49.91 | 60.06 |
| 5000 | 0.28 | 9.92 | 14.97 | 20.01 | 30.11 | 40.44 | 50.46 | 60.68 |
| 5500 | 0.29 | 10.01 | 15.12 | 20.38 | 30.49 | 40.90 | 51.02 | 61.35 |
| 6000 | 0.30 | 10.01 | 15.15 | 20.44 | 30.59 | 40.97 | 51.17 | 61.60 |
| 7000 | 0.33 | 10.20 | 15.40 | 20.87 | 30.97 | 41.50 | 51.92 | 62.22 |
| 7500 | 0.33 | 9.87 | 15.02 | 20.73 | 30.68 | 41.04 | 51.34 | 61.62 |
| 8000 | 0.31 | 10.05 | 15.22 | 20.39 | 30.36 | 40.53 | 50.84 | 60.76 |

| FREQUENCY (MHz) | Attenuation accuracy relative to nominal attenuation setting (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | -0.03 | 0.18 | 0.17 | 0.73 | 1.10 | 1.26 | 1.81 | 2.18 |
| 5 | -0.03 | 0.18 | 0.17 | 0.73 | 1.10 | 1.26 | 1.81 | 2.18 |
| 10 | -0.03 | 0.18 | 0.17 | 0.73 | 1.09 | 1.25 | 1.81 | 2.17 |
| 20 | -0.03 | 0.18 | 0.17 | 0.73 | 1.09 | 1.25 | 1.81 | 2.17 |
| 50 | -0.03 | 0.18 | 0.18 | 0.73 | 1.10 | 1.25 | 1.82 | 2.18 |
| 100 | -0.03 | 0.18 | 0.18 | 0.74 | 1.10 | 1.26 | 1.82 | 2.18 |
| 200 | -0.03 | 0.20 | 0.20 | 0.75 | 1.12 | 1.28 | 1.83 | 2.20 |
| 500 | -0.03 | 0.27 | 0.28 | 0.83 | 1.20 | 1.36 | 1.91 | 2.29 |
| 750 | -0.02 | 0.32 | 0.33 | 0.89 | 1.25 | 1.40 | 1.96 | 2.33 |
| 1000 | -0.02 | 0.31 | 0.32 | 0.88 | 1.23 | 1.37 | 1.92 | 2.28 |
| 1500 | -0.02 | 0.19 | 0.19 | 0.72 | 1.03 | 1.14 | 1.67 | 2.01 |
| 2000 | -0.02 | 0.24 | 0.25 | 0.69 | 0.99 | 1.08 | 1.56 | 1.88 |
| 2500 | -0.01 | 0.30 | 0.31 | 0.72 | 0.97 | 1.02 | 1.46 | 1.71 |
| 3000 | -0.02 | 0.19 | 0.19 | 0.56 | 0.74 | 0.71 | 1.08 | 1.25 |
| 3500 | -0.02 | 0.22 | 0.22 | 0.44 | 0.58 | 0.50 | 0.79 | 0.88 |
| 4000 | -0.02 | 0.22 | 0.22 | 0.34 | 0.41 | 0.30 | 0.51 | 0.47 |
| 4500 | -0.02 | 0.15 | 0.11 | 0.23 | 0.18 | -0.02 | 0.09 | -0.06 |
| 5000 | -0.03 | 0.09 | 0.03 | -0.01 | -0.11 | -0.44 | -0.46 | -0.68 |
| 5500 | -0.04 | -0.01 | -0.12 | -0.38 | -0.49 | -0.90 | -1.02 | -1.35 |
| 6000 | -0.05 | -0.01 | -0.15 | -0.44 | -0.59 | -0.97 | -1.17 | -1.60 |
| 7000 | -0.08 | -0.20 | -0.40 | -0.87 | -0.97 | -1.50 | -1.92 | -2.22 |
| 7500 | -0.08 | 0.13 | -0.02 | -0.73 | -0.68 | -1.04 | -1.34 | -1.62 |
| 8000 | -0.06 | -0.05 | -0.22 | -0.39 | -0.36 | -0.53 | -0.83 | -0.76 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +25°C

| FREQUENCY (MHz) | Input VSWR (:1) | | | | | | | |
|--------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.47 | 1.19 | 1.21 | 1.26 | 1.25 | 1.19 | 1.07 | 1.05 |
| 5 | 1.47 | 1.19 | 1.21 | 1.26 | 1.25 | 1.19 | 1.06 | 1.05 |
| 10 | 1.47 | 1.19 | 1.21 | 1.26 | 1.25 | 1.19 | 1.06 | 1.05 |
| 20 | 1.47 | 1.19 | 1.20 | 1.26 | 1.25 | 1.19 | 1.06 | 1.04 |
| 50 | 1.47 | 1.19 | 1.20 | 1.26 | 1.25 | 1.19 | 1.06 | 1.05 |
| 100 | 1.46 | 1.19 | 1.20 | 1.26 | 1.25 | 1.19 | 1.06 | 1.05 |
| 200 | 1.43 | 1.18 | 1.20 | 1.25 | 1.25 | 1.19 | 1.07 | 1.05 |
| 500 | 1.28 | 1.15 | 1.18 | 1.22 | 1.23 | 1.18 | 1.06 | 1.05 |
| 750 | 1.13 | 1.13 | 1.16 | 1.21 | 1.22 | 1.17 | 1.06 | 1.05 |
| 1000 | 1.12 | 1.13 | 1.16 | 1.23 | 1.22 | 1.17 | 1.06 | 1.05 |
| 1500 | 1.36 | 1.16 | 1.18 | 1.26 | 1.24 | 1.16 | 1.06 | 1.04 |
| 2000 | 1.32 | 1.14 | 1.15 | 1.19 | 1.19 | 1.14 | 1.06 | 1.04 |
| 2500 | 1.09 | 1.10 | 1.12 | 1.14 | 1.16 | 1.13 | 1.08 | 1.06 |
| 3000 | 1.23 | 1.12 | 1.13 | 1.25 | 1.22 | 1.14 | 1.10 | 1.07 |
| 3500 | 1.31 | 1.15 | 1.16 | 1.28 | 1.25 | 1.15 | 1.13 | 1.09 |
| 4000 | 1.15 | 1.13 | 1.14 | 1.13 | 1.15 | 1.14 | 1.13 | 1.09 |
| 4500 | 1.19 | 1.14 | 1.15 | 1.22 | 1.18 | 1.13 | 1.11 | 1.08 |
| 5000 | 1.20 | 1.14 | 1.16 | 1.32 | 1.24 | 1.12 | 1.08 | 1.05 |
| 5500 | 1.10 | 1.08 | 1.10 | 1.14 | 1.09 | 1.04 | 1.05 | 1.02 |
| 6000 | 1.08 | 1.08 | 1.11 | 1.13 | 1.10 | 1.09 | 1.12 | 1.09 |
| 7000 | 1.19 | 1.22 | 1.22 | 1.31 | 1.26 | 1.28 | 1.42 | 1.35 |
| 7500 | 1.67 | 1.37 | 1.35 | 1.66 | 1.56 | 1.46 | 1.63 | 1.50 |
| 8000 | 1.59 | 1.45 | 1.44 | 1.50 | 1.51 | 1.54 | 1.81 | 1.64 |

| FREQUENCY (MHz) | Output VSWR (:1) | | | | | | | |
|--------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.49 | 1.19 | 1.07 | 1.09 | 1.05 | 1.03 | 1.03 | 1.04 |
| 5 | 1.49 | 1.19 | 1.07 | 1.09 | 1.05 | 1.03 | 1.03 | 1.04 |
| 10 | 1.49 | 1.19 | 1.07 | 1.09 | 1.04 | 1.03 | 1.03 | 1.03 |
| 20 | 1.49 | 1.19 | 1.07 | 1.08 | 1.04 | 1.02 | 1.02 | 1.03 |
| 50 | 1.49 | 1.19 | 1.07 | 1.08 | 1.04 | 1.02 | 1.02 | 1.03 |
| 100 | 1.48 | 1.19 | 1.07 | 1.08 | 1.04 | 1.03 | 1.03 | 1.03 |
| 200 | 1.45 | 1.19 | 1.07 | 1.09 | 1.05 | 1.03 | 1.03 | 1.03 |
| 500 | 1.28 | 1.16 | 1.06 | 1.08 | 1.05 | 1.03 | 1.03 | 1.03 |
| 750 | 1.11 | 1.13 | 1.06 | 1.08 | 1.05 | 1.03 | 1.03 | 1.03 |
| 1000 | 1.11 | 1.13 | 1.06 | 1.08 | 1.04 | 1.03 | 1.03 | 1.03 |
| 1500 | 1.38 | 1.17 | 1.06 | 1.07 | 1.04 | 1.02 | 1.02 | 1.03 |
| 2000 | 1.37 | 1.16 | 1.06 | 1.08 | 1.05 | 1.02 | 1.02 | 1.04 |
| 2500 | 1.12 | 1.13 | 1.06 | 1.10 | 1.08 | 1.04 | 1.04 | 1.07 |
| 3000 | 1.29 | 1.18 | 1.10 | 1.13 | 1.11 | 1.07 | 1.07 | 1.10 |
| 3500 | 1.52 | 1.27 | 1.15 | 1.15 | 1.14 | 1.10 | 1.10 | 1.13 |
| 4000 | 1.33 | 1.25 | 1.16 | 1.15 | 1.16 | 1.13 | 1.13 | 1.15 |
| 4500 | 1.25 | 1.24 | 1.18 | 1.13 | 1.16 | 1.15 | 1.15 | 1.16 |
| 5000 | 1.42 | 1.29 | 1.19 | 1.09 | 1.14 | 1.16 | 1.16 | 1.14 |
| 5500 | 1.28 | 1.16 | 1.15 | 1.08 | 1.11 | 1.16 | 1.16 | 1.11 |
| 6000 | 1.14 | 1.06 | 1.13 | 1.16 | 1.10 | 1.16 | 1.16 | 1.10 |
| 7000 | 1.30 | 1.18 | 1.21 | 1.38 | 1.28 | 1.24 | 1.24 | 1.27 |
| 7500 | 1.93 | 1.49 | 1.34 | 1.46 | 1.40 | 1.32 | 1.32 | 1.39 |
| 8000 | 1.71 | 1.56 | 1.43 | 1.51 | 1.51 | 1.40 | 1.40 | 1.51 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +25°C

| FREQUENCY (MHz) | IP3 (dBm) | Insertion Loss @P _{IN} =0 dBm (dB) | Insertion Loss @P _{IN} =+28 dBm (dB) |
|--------------------|--------------|---|---|
| 1 | 46.01 | 2.33 | 2.38 |
| 10 | 57.35 | 2.37 | 2.45 |
| 20 | 57.27 | 2.16 | 2.23 |
| 50 | 51.11 | 1.75 | 1.83 |
| 100 | 51.12 | 2.18 | 2.25 |
| 200 | 53.55 | 2.63 | 2.73 |
| 500 | 54.43 | 2.67 | 2.65 |
| 750 | 54.45 | 2.80 | 2.72 |
| 1000 | 55.34 | 3.20 | 3.14 |
| 1500 | 55.31 | 2.80 | 2.84 |
| 2000 | 55.05 | 3.07 | 3.12 |
| 2500 | 54.52 | 3.69 | 3.71 |
| 3000 | 53.62 | 3.90 | 3.99 |
| 3500 | 51.63 | 4.43 | 4.50 |
| 4000 | 53.95 | 4.66 | 4.69 |
| 4500 | 53.21 | 5.33 | 5.50 |
| 5000 | 51.72 | 5.55 | 5.66 |
| 5500 | 48.63 | 5.62 | 5.51 |
| 6000 | 48.68 | 5.85 | 5.84 |
| 6500 | 49.02 | 5.96 | 5.95 |
| 7000 | 48.26 | 5.96 | 5.99 |
| 7500 | 50.94 | 7.29 | 7.56 |
| 8000 | 48.36 | 8.20 | 8.70 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +50°C

| FREQUENCY (MHz) | Attenuation relative to Insertion Loss (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 0.28 | 9.77 | 14.75 | 19.21 | 28.82 | 38.64 | 48.07 | 57.69 |
| 5 | 0.28 | 9.77 | 14.75 | 19.21 | 28.82 | 38.64 | 48.07 | 57.69 |
| 10 | 0.28 | 9.77 | 14.75 | 19.21 | 28.82 | 38.64 | 48.08 | 57.69 |
| 20 | 0.28 | 9.77 | 14.75 | 19.21 | 28.82 | 38.64 | 48.08 | 57.69 |
| 50 | 0.28 | 9.76 | 14.75 | 19.21 | 28.82 | 38.64 | 48.07 | 57.68 |
| 100 | 0.28 | 9.77 | 14.75 | 19.21 | 28.82 | 38.64 | 48.08 | 57.68 |
| 200 | 0.28 | 9.75 | 14.74 | 19.20 | 28.80 | 38.62 | 48.06 | 57.66 |
| 500 | 0.27 | 9.68 | 14.65 | 19.12 | 28.72 | 38.53 | 47.98 | 57.56 |
| 750 | 0.27 | 9.64 | 14.60 | 19.07 | 28.67 | 38.49 | 47.93 | 57.52 |
| 1000 | 0.26 | 9.65 | 14.61 | 19.08 | 28.70 | 38.52 | 47.97 | 57.56 |
| 1500 | 0.27 | 9.75 | 14.74 | 19.23 | 28.88 | 38.75 | 48.22 | 57.85 |
| 2000 | 0.27 | 9.71 | 14.69 | 19.27 | 28.94 | 38.82 | 48.35 | 57.99 |
| 2500 | 0.26 | 9.66 | 14.63 | 19.25 | 28.97 | 38.88 | 48.45 | 58.16 |
| 3000 | 0.26 | 9.77 | 14.76 | 19.41 | 29.21 | 39.19 | 48.83 | 58.63 |
| 3500 | 0.27 | 9.73 | 14.71 | 19.53 | 29.36 | 39.39 | 49.12 | 58.99 |
| 4000 | 0.27 | 9.75 | 14.73 | 19.65 | 29.55 | 39.64 | 49.45 | 59.44 |
| 4500 | 0.27 | 9.82 | 14.84 | 19.76 | 29.79 | 39.95 | 49.87 | 60.00 |
| 5000 | 0.28 | 9.89 | 14.94 | 20.00 | 30.08 | 40.37 | 50.45 | 60.65 |
| 5500 | 0.29 | 10.00 | 15.10 | 20.39 | 30.49 | 40.89 | 51.07 | 61.38 |
| 6000 | 0.29 | 9.98 | 15.11 | 20.47 | 30.61 | 40.99 | 51.25 | 61.69 |
| 7000 | 0.33 | 10.16 | 15.33 | 20.90 | 30.99 | 41.52 | 52.05 | 62.34 |
| 7500 | 0.33 | 9.83 | 14.96 | 20.80 | 30.75 | 41.13 | 51.52 | 61.85 |
| 8000 | 0.31 | 10.02 | 15.18 | 20.50 | 30.48 | 40.65 | 51.03 | 61.04 |

| FREQUENCY (MHz) | Attenuation accuracy relative to nominal attenuation setting (dB) | | | | | | | |
|--------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | -0.03 | 0.23 | 0.25 | 0.79 | 1.18 | 1.36 | 1.93 | 2.31 |
| 5 | -0.03 | 0.23 | 0.25 | 0.79 | 1.18 | 1.36 | 1.93 | 2.31 |
| 10 | -0.03 | 0.23 | 0.25 | 0.79 | 1.18 | 1.36 | 1.92 | 2.31 |
| 20 | -0.03 | 0.23 | 0.25 | 0.79 | 1.18 | 1.36 | 1.92 | 2.31 |
| 50 | -0.03 | 0.24 | 0.25 | 0.79 | 1.18 | 1.36 | 1.93 | 2.32 |
| 100 | -0.03 | 0.23 | 0.25 | 0.79 | 1.18 | 1.36 | 1.92 | 2.32 |
| 200 | -0.03 | 0.25 | 0.27 | 0.81 | 1.20 | 1.38 | 1.94 | 2.34 |
| 500 | -0.02 | 0.32 | 0.35 | 0.88 | 1.28 | 1.47 | 2.03 | 2.44 |
| 750 | -0.02 | 0.36 | 0.40 | 0.93 | 1.33 | 1.51 | 2.07 | 2.48 |
| 1000 | -0.01 | 0.35 | 0.39 | 0.92 | 1.30 | 1.48 | 2.03 | 2.44 |
| 1500 | -0.02 | 0.25 | 0.26 | 0.77 | 1.12 | 1.26 | 1.78 | 2.15 |
| 2000 | -0.02 | 0.29 | 0.31 | 0.73 | 1.06 | 1.18 | 1.65 | 2.01 |
| 2500 | -0.01 | 0.34 | 0.37 | 0.75 | 1.04 | 1.12 | 1.55 | 1.84 |
| 3000 | -0.01 | 0.23 | 0.24 | 0.59 | 0.79 | 0.81 | 1.17 | 1.37 |
| 3500 | -0.02 | 0.27 | 0.29 | 0.47 | 0.65 | 0.62 | 0.88 | 1.01 |
| 4000 | -0.01 | 0.25 | 0.27 | 0.35 | 0.45 | 0.36 | 0.55 | 0.56 |
| 4500 | -0.02 | 0.18 | 0.16 | 0.24 | 0.21 | 0.05 | 0.13 | 0.00 |
| 5000 | -0.03 | 0.11 | 0.06 | 0.00 | -0.08 | -0.37 | -0.45 | -0.65 |
| 5500 | -0.04 | 0.00 | -0.10 | -0.39 | -0.49 | -0.89 | -1.07 | -1.38 |
| 6000 | -0.04 | 0.02 | -0.11 | -0.47 | -0.61 | -0.99 | -1.25 | -1.69 |
| 7000 | -0.08 | -0.16 | -0.33 | -0.90 | -0.99 | -1.52 | -2.04 | -2.34 |
| 7500 | -0.07 | 0.17 | 0.04 | -0.80 | -0.75 | -1.13 | -1.52 | -1.85 |
| 8000 | -0.06 | -0.02 | -0.18 | -0.50 | -0.48 | -0.65 | -1.03 | -1.04 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +50°C

| FREQUENCY (MHz) | Input VSWR (:1) | | | | | | | |
|--------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.50 | 1.23 | 1.25 | 1.31 | 1.30 | 1.23 | 1.10 | 1.08 |
| 5 | 1.50 | 1.23 | 1.25 | 1.31 | 1.30 | 1.23 | 1.10 | 1.08 |
| 10 | 1.49 | 1.22 | 1.25 | 1.31 | 1.30 | 1.23 | 1.10 | 1.08 |
| 20 | 1.49 | 1.22 | 1.25 | 1.30 | 1.29 | 1.23 | 1.10 | 1.08 |
| 50 | 1.49 | 1.22 | 1.25 | 1.30 | 1.29 | 1.23 | 1.10 | 1.08 |
| 100 | 1.48 | 1.22 | 1.24 | 1.30 | 1.29 | 1.23 | 1.10 | 1.08 |
| 200 | 1.45 | 1.21 | 1.23 | 1.29 | 1.28 | 1.22 | 1.10 | 1.08 |
| 500 | 1.29 | 1.18 | 1.21 | 1.24 | 1.25 | 1.22 | 1.10 | 1.08 |
| 750 | 1.14 | 1.16 | 1.19 | 1.21 | 1.23 | 1.21 | 1.10 | 1.08 |
| 1000 | 1.14 | 1.16 | 1.19 | 1.22 | 1.24 | 1.21 | 1.10 | 1.08 |
| 1500 | 1.37 | 1.19 | 1.21 | 1.28 | 1.27 | 1.20 | 1.10 | 1.07 |
| 2000 | 1.32 | 1.16 | 1.18 | 1.21 | 1.21 | 1.17 | 1.09 | 1.06 |
| 2500 | 1.09 | 1.12 | 1.14 | 1.13 | 1.16 | 1.15 | 1.10 | 1.07 |
| 3000 | 1.24 | 1.14 | 1.15 | 1.24 | 1.22 | 1.16 | 1.12 | 1.09 |
| 3500 | 1.33 | 1.19 | 1.19 | 1.31 | 1.28 | 1.19 | 1.15 | 1.11 |
| 4000 | 1.17 | 1.17 | 1.18 | 1.16 | 1.18 | 1.18 | 1.16 | 1.12 |
| 4500 | 1.22 | 1.18 | 1.19 | 1.24 | 1.21 | 1.17 | 1.14 | 1.12 |
| 5000 | 1.20 | 1.16 | 1.18 | 1.32 | 1.25 | 1.15 | 1.09 | 1.08 |
| 5500 | 1.10 | 1.09 | 1.11 | 1.13 | 1.08 | 1.05 | 1.03 | 1.04 |
| 6000 | 1.09 | 1.07 | 1.10 | 1.14 | 1.10 | 1.08 | 1.11 | 1.08 |
| 7000 | 1.18 | 1.19 | 1.19 | 1.30 | 1.25 | 1.26 | 1.39 | 1.32 |
| 7500 | 1.63 | 1.34 | 1.33 | 1.63 | 1.53 | 1.42 | 1.58 | 1.46 |
| 8000 | 1.55 | 1.42 | 1.41 | 1.47 | 1.49 | 1.52 | 1.76 | 1.60 |

| FREQUENCY (MHz) | Output VSWR (:1) | | | | | | | |
|--------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0.25 dB | 10 dB | 15 dB | 20 dB | 30 dB | 40 dB | 50 dB | 60 dB |
| 1 | 1.52 | 1.23 | 1.11 | 1.13 | 1.09 | 1.06 | 1.06 | 1.07 |
| 5 | 1.52 | 1.23 | 1.11 | 1.13 | 1.08 | 1.06 | 1.06 | 1.07 |
| 10 | 1.52 | 1.23 | 1.11 | 1.12 | 1.08 | 1.06 | 1.06 | 1.07 |
| 20 | 1.52 | 1.23 | 1.10 | 1.12 | 1.08 | 1.06 | 1.06 | 1.06 |
| 50 | 1.51 | 1.23 | 1.10 | 1.12 | 1.08 | 1.06 | 1.06 | 1.06 |
| 100 | 1.50 | 1.22 | 1.10 | 1.12 | 1.08 | 1.06 | 1.06 | 1.06 |
| 200 | 1.47 | 1.21 | 1.10 | 1.12 | 1.08 | 1.05 | 1.06 | 1.06 |
| 500 | 1.29 | 1.18 | 1.09 | 1.12 | 1.08 | 1.06 | 1.06 | 1.07 |
| 750 | 1.12 | 1.14 | 1.09 | 1.12 | 1.08 | 1.06 | 1.06 | 1.07 |
| 1000 | 1.12 | 1.14 | 1.09 | 1.12 | 1.08 | 1.06 | 1.06 | 1.07 |
| 1500 | 1.40 | 1.20 | 1.10 | 1.11 | 1.08 | 1.06 | 1.06 | 1.06 |
| 2000 | 1.39 | 1.19 | 1.09 | 1.10 | 1.07 | 1.05 | 1.05 | 1.06 |
| 2500 | 1.11 | 1.13 | 1.08 | 1.12 | 1.09 | 1.06 | 1.06 | 1.08 |
| 3000 | 1.29 | 1.18 | 1.11 | 1.14 | 1.12 | 1.09 | 1.09 | 1.11 |
| 3500 | 1.53 | 1.29 | 1.17 | 1.17 | 1.16 | 1.13 | 1.13 | 1.15 |
| 4000 | 1.33 | 1.27 | 1.19 | 1.18 | 1.19 | 1.17 | 1.17 | 1.18 |
| 4500 | 1.26 | 1.26 | 1.21 | 1.16 | 1.20 | 1.20 | 1.20 | 1.19 |
| 5000 | 1.42 | 1.30 | 1.23 | 1.11 | 1.18 | 1.20 | 1.20 | 1.18 |
| 5500 | 1.28 | 1.17 | 1.18 | 1.09 | 1.13 | 1.19 | 1.19 | 1.14 |
| 6000 | 1.15 | 1.06 | 1.14 | 1.15 | 1.10 | 1.16 | 1.16 | 1.10 |
| 7000 | 1.32 | 1.16 | 1.18 | 1.35 | 1.24 | 1.20 | 1.20 | 1.23 |
| 7500 | 1.89 | 1.45 | 1.29 | 1.43 | 1.35 | 1.26 | 1.26 | 1.34 |
| 8000 | 1.68 | 1.52 | 1.38 | 1.47 | 1.46 | 1.35 | 1.35 | 1.46 |

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Programmable Attenuator RCDAT-8000-60

Typical Performance Data @ +50°C

| FREQUENCY (MHz) | IP3 (dBm) | Insertion Loss @P _{IN} =0 dBm (dB) | Insertion Loss @P _{IN} =+28 dBm (dB) |
|--------------------|--------------|---|---|
| 1 | 44.97 | 2.39 | 2.45 |
| 10 | 51.00 | 2.44 | 2.52 |
| 20 | 57.34 | 2.22 | 2.29 |
| 50 | 54.13 | 1.81 | 1.89 |
| 100 | 51.69 | 2.24 | 2.32 |
| 200 | 52.78 | 2.70 | 2.79 |
| 500 | 55.10 | 2.76 | 2.69 |
| 750 | 53.77 | 2.93 | 2.84 |
| 1000 | 54.11 | 3.29 | 3.23 |
| 1500 | 54.21 | 2.91 | 2.95 |
| 2000 | 54.02 | 3.18 | 3.24 |
| 2500 | 54.16 | 3.86 | 3.86 |
| 3000 | 55.30 | 4.08 | 4.14 |
| 3500 | 51.02 | 4.60 | 4.63 |
| 4000 | 53.72 | 4.86 | 4.86 |
| 4500 | 51.40 | 5.48 | 5.68 |
| 5000 | 51.57 | 5.69 | 5.74 |
| 5500 | 49.90 | 5.76 | 5.63 |
| 6000 | 47.94 | 6.03 | 5.99 |
| 6500 | 51.69 | 6.10 | 6.08 |
| 7000 | 47.43 | 6.11 | 6.13 |
| 7500 | 48.69 | 7.49 | 7.78 |
| 8000 | 51.29 | 8.27 | 8.74 |

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