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# **Decibel ratios**

$$N = 10 \log \frac{P_{OUT}}{P_{IN}}$$

$$N = 20 log \frac{I_{OUT}}{I_{IN}} + 10 log \frac{R_{OUT}}{R_{IN}}$$

$$N = 20 \log \frac{V_{OUT}}{V_{IN}} + 10 \log \frac{R_{IN}}{R_{OUT}}$$

$$N = 20 \log \frac{V_{out}}{V_{IN}}$$

$$N = 20 \log \frac{I_{OUT}}{I_{IN}}$$

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