

**THE Q FACTOR**

**Lorraine Tischler**

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### **The Q-factor of a continuous-wave laser - IEEE Conference Publication**

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### **Q factor - Wikipedia**

The quality factor or 'Q' of an inductor or tuned circuit is often used to give an indication of its performance in a resonator circuit. The Q or quality factor is a.

## Q factor - Wikipedia

Q factor definition: a measure of the relationship between stored energy and rate of energy dissipation in | Meaning, pronunciation, translations and examples.

## Quality Factor | Q Factor Formula | Electronics Notes

Glossary Definition for Q Factor. Glossary Term: Q Factor. Definition: A measure of the quality of a resonant (tank) circuit. A "high-Q" circuit has mostly reactive.

## Quality Factor | Q Factor Formula | Electronics Notes

The Q factor of a series resonant circuit is defined as the ratio of the voltage across a coil or capacitor to the applied voltage. Q is equal to.

The quality factor or 'Q' of an inductor or tuned circuit is often used to give an indication of its performance in an RF or other circuit. Values for.

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Although this can occur anywhere within the circuit, the main cause of resistance occurs within the inductor. The formula for the Q factor is: . In particular Q is often used in association with an inductor.

Resonators with high quality factors have low dampings so that they ring or vibrate.

Conclusion From the Software trigger, corroborated with the fast Oscilloscope trace, which are available The Q Factor all UHF/LI Lock-in Amplifier users, we have shown how to rapidly determine the Q factor of a resonator, without making a complete frequency sweep. Above resonance, the inductive reactance increases, capacitive reactance decreases, leaving a net inductive component. The Q-factor of this tank is not very good:

For other uses of the terms Q factor and Quality factor see Q value disambiguation. The Q Factor quoted and can be used in defining the performance of an inductor, a capacitor

or tuned circuit. It can also be defined for an inductor as the ratio of its inductive reactance to its resistance at a particular frequency, and it is a measure of its efficiency.