

CALCULATIONS OF EQUIVALENT RLC IMPEDANCES

CIRCUIT CONNECTION

COMPLEX FORM

ABSOLUTE VALUE

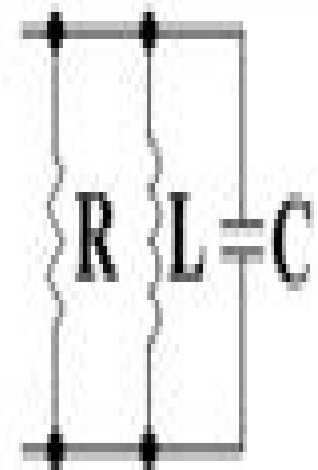
Series



$$Z = R + j\omega L + 1/j\omega C$$

$$Z = \sqrt{R^2 + \left(\omega L - \frac{1}{\omega C}\right)^2}$$

Parallel



$$Z = \frac{1}{1/R + 1/j\omega L + j\omega C}$$

$$Z = \frac{1}{\sqrt{\frac{1}{R^2} + \left(\omega C - \frac{1}{\omega L}\right)^2}}$$

Mathematics For Basic Electronics

LL Leslie



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