

BE1M13VES

Manufacturing of Electrical Components

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Overview

- 1 Frequency dependency of resistors
- 2 Frequency dependency of capacitors
- 3 Frequency dependency of inductors

TOPIC

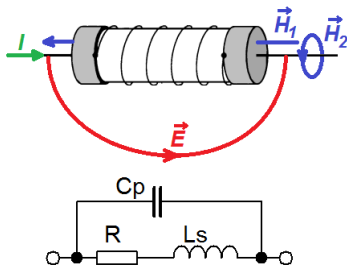
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2 Frequency dependency of capacitors

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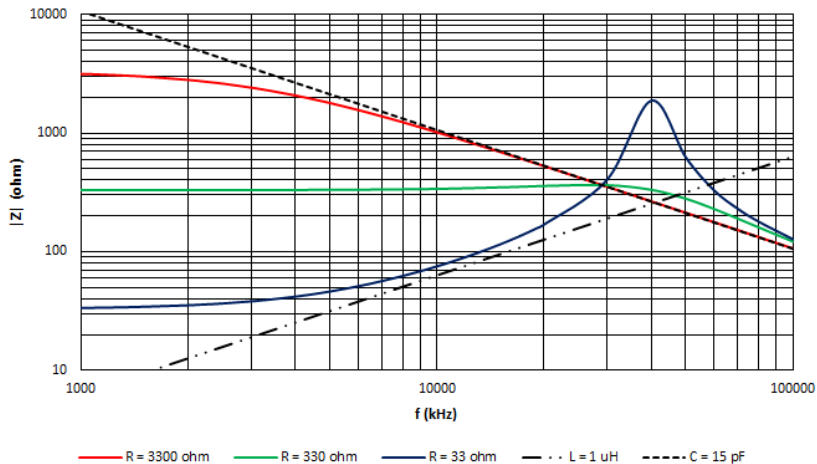
Equivalent Circuit

For AC circuits the parasitic serial inductance and parallel capacity must be taken into account. The frequency dependence of the resistors is caused especially by its construction.



- $H_1, H_2 \dots$ magnetic field from resistive track and leads.
- $E \dots$ electric field (capacitance) between opposite sides of package and leads.

Impedance Plot



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