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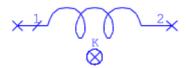
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Inductor with Series Resistive Loss and Optional Coupling (Closed Form): INDRK

Symbol



Summary

INDRK implements an ideal inductor in series with a resistor with an option to include coupling to other INDRK and/or INDK elements. The coupling is modeled by other elements (INDM, INDK, or INDRM) connected between the "K" ports of two INDRK (or INDK) elements.

Parameters

Name	Description	Unit Type	Default
ID	Name	Text	L1
R	Resistor	Resistance	0 ohm
L	Inductance	Inductance	1 nH

Implementation Details

The INDRK element implements an ideal inductor in series with the resistor and with the option to be mutually coupled to other INDRK/INDK elements. The coupling between two INDRK/INDK elements can be represented by using one of three elements: the INDM element, which represents the mutual inductance between the two INDRK/INDK elements, the INDRM element, which represents the mutual inductance with resistive loss between the two INDRK/INDK elements, or the K element, which represents the coupling coefficient. If nothing is connected to the "K" port of the INDK element, the inductor L is considered ideal (in series with the resistor R.)

Layout

This element does not have an assigned layout cell. You can assign artwork cells to any element. See <u>"Assigning Artwork Cells to Layout of Schematic Elements"</u> for details.

Recommendations for Use

See "Recommendations for Use" for the **INDK** model.

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