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Mutual Inductance with Resistive Loss (Closed Form): INDRM

Symbol

Summary

INDRM is used to represent the mutual coupling between inductors if resistive coupling loss is present (INDK elements).

Parameters

Name	Description	Unit Type	Default
ID	Name	Text	L1
R	Mutual resistance	Resistance	0 ohm
M	Mutual inductance	Inductance	0 nH

Implementation Details

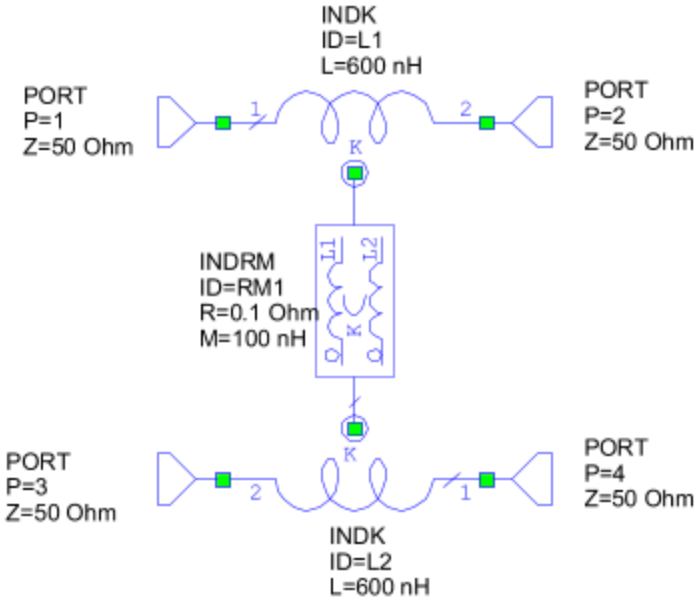
The INDRM element represents the mutual coupling between inductors. Parameter R represents the optional lossy coupling that exists, for example, in coupled Tx lines (R is in series with M). This element is meant to be used between two INDK elements and should be connected to the "K" ports of those elements.

Layout

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

Recommendations for Use

The following figure shows the typical use of INDK and INDM elements to model mutual coupling between two inductors.



The INDRM element is used to model the mutual coupling between the two INDK elements by specifying an actual mutual inductance and resistance.

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