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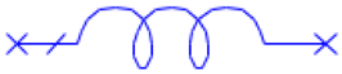
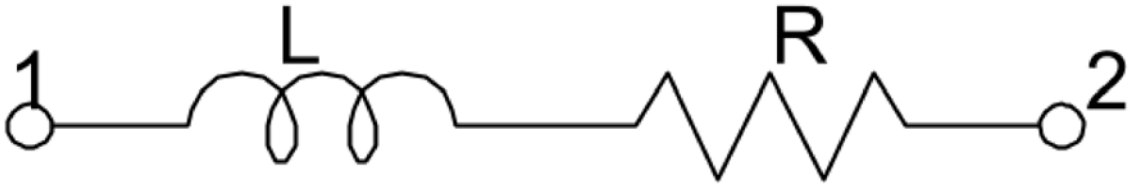
# Inductor With Q (Closed Form): INDQ2

## Symbol



## Topology




## Parameters

| Name | Description | Unit Type | Default |
|---|---|---|---|
| ID | Name | Text | L1 |
| L | Inductance | Inductance | 1 nH |
| Q | Q | | 50 |
| FQ | Frequency at which Q is evaluated | Frequency | 0 .1 GHz |
| *MODE | Loss mode | | Constant |
| RDC | DC resistance | | 0 |

** indicates a secondary parameter*

## Parameter Details

**MODE.** Defines how R behaves as a function of frequency. Choose "Constant", "Proportional to sqrt(freq)", "Proportional to freq", or "Proportional to sqrt(freq), constant L".

**RDC.** The DC resistance (the value of R at 0 Hz). It is used only for the three frequency-dependent modes, not for "Constant" mode.

## Implementation Details

Implements an inductor with frequency-dependent Q.

## 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.

## Restrictions

FQ must be greater than or equal to zero.

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