

Inductor

L

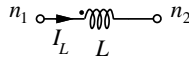


Figure 1: L — Inductor Element.

SPICE Form:

Lname n_1 n_2 ModelName Inductor Value [IC= I_L]

- n_1 is the positive element node
- n_2 is the negative element node
- ModelName is the optional model name
- InductorValue is the inductance. (Units: Henries; Required)
- IC is the optional initial condition specification. Using IC= I_L is used with the UIC option on the .TRAN line when a transient analysis is desired with initial current I_L through the inductor rather than the quiescent operating point. Specification of the transient initial condition using the .IC is preferred and is more convenient.

Model Parameters:

Name	Description	Units	Default
L	Inductor Value	henries	-
intres	Internal resistance value	ohms	-
timed	Flag: if true then calculate in the time domain	-	-

Example:

L2 20 52 LSERIES 10U IC=16.9mA

Notes:

The actual element is the ind TRANSIM element. See TRANSIM element ind for full documentation.

Credits:

Name	Affiliation	Date	Logo
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