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Square Wave Current Source: I_SQR

Symbol



Summary

This signal source is superseded and should be replaced with one of the following: [AC_V](#) for voltage sources, [AC_I](#) for current sources, or [PORT_SRC](#) for ports, with the Signal parameter set to this signal type.

The period for tone 1 sources is the inverse of the specified simulation frequency; see [“Frequency Sweep Control”](#) for details.

Parameters

Name	Description	Unit Type	Default
ID	Current source ID	Text	V1
AMP	Signal magnitude	Current	0 mA
TR	Rise time	Time	0 ns
TF	Fall time	Time	0 ns
TD	Time delay	Time	0 ns
WINDOW	Window type		DEFAULT ^[1]
Offset	Waveform offset (does not affect DC)	Current	0
DCVal	DC value (used for DC analysis)	Current	0

Name	Description	Unit Type	Default
[1] Window type options are none (NONE), Lanczos (DEFAULT, ref [1]), Triangular (TRIANG), Hanning (HANN), Hamming (HAMM), Blackman (BLACK). See L_PLS for additional details on the WINDOW parameter.			

NOTE: AWR® simulators add some series resistance to this element during simulation. This may affect results if injecting current into a large resistance. To change the value of the resistance, choose **Options > Default Circuit Options** to display the Circuit Options dialog box, then click the **AWR Sim** tab and under **Convergence Aids** specify the **Series source resistance**.

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.

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