







Notes available Feb 29, 2017

Gerardemas de nda



Fabricante: BKK Precision

Modelo: 4052

**EX PRECISION® 4052**

5 MHz Function / Arbitrary  
Waveform Generator



CH2



7

8

9

4

5

6

1

2

3

.

0

+/-

Mod

Sweep

Burst

Store Recall

Utility

Help



Output

Output

CH2

CH1

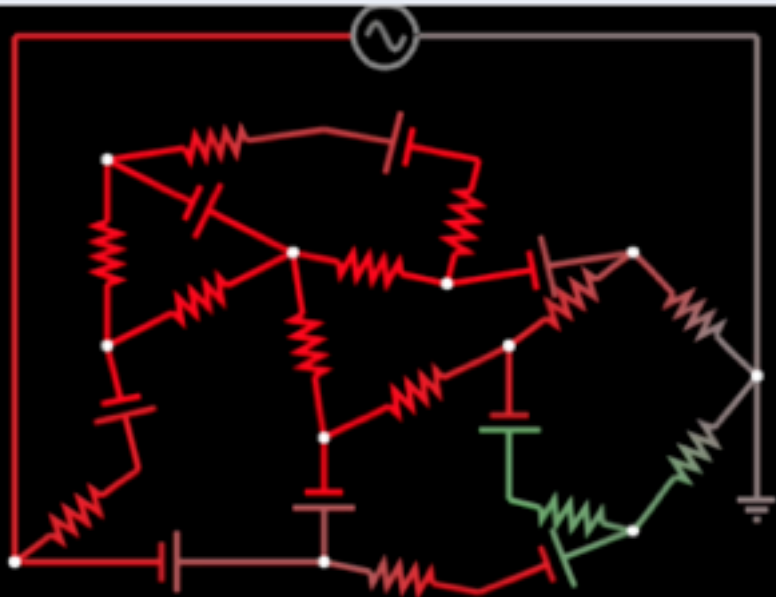


BNC

BNC

CH1: 15V Vpp into 50  $\Omega$   
CH2: 5V Vpp into 50  $\Omega$

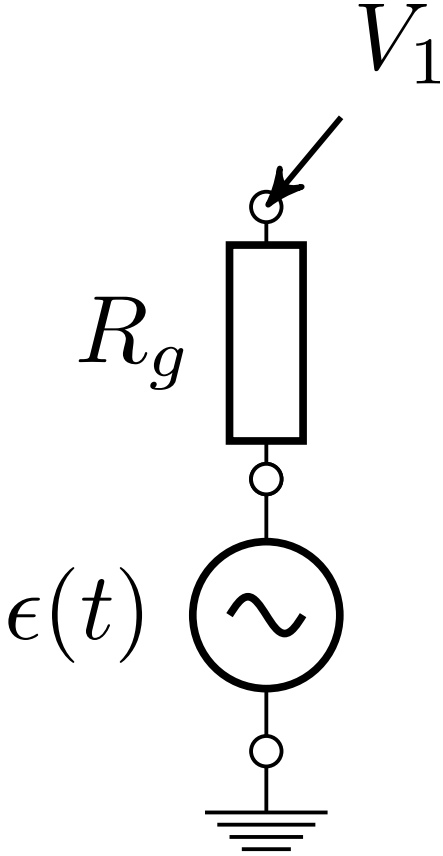


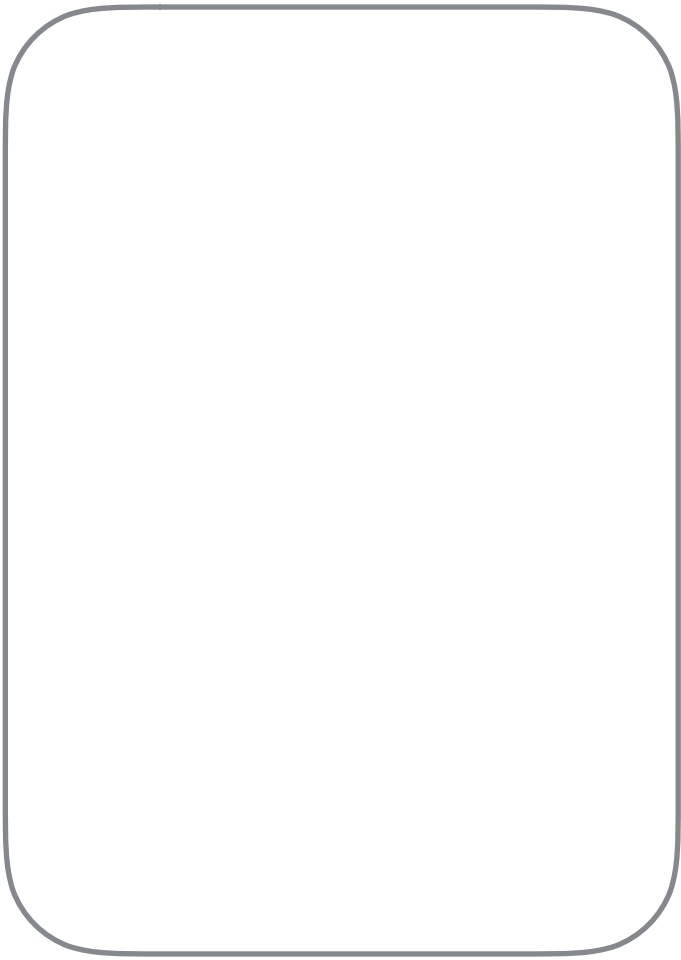


3.31 V

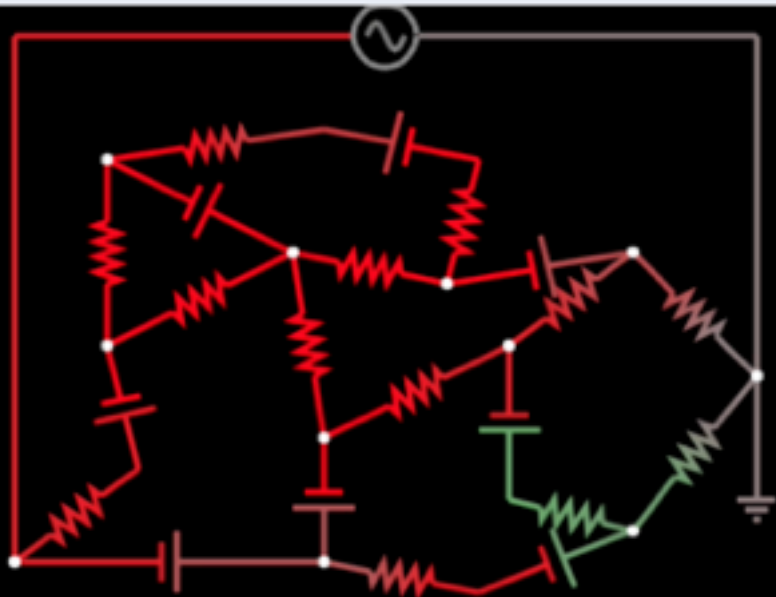
3.31 V

 $t = 3.1 \text{ ms}$



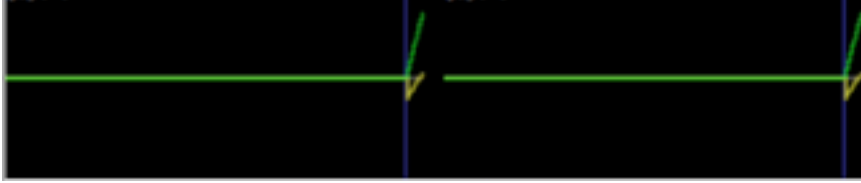


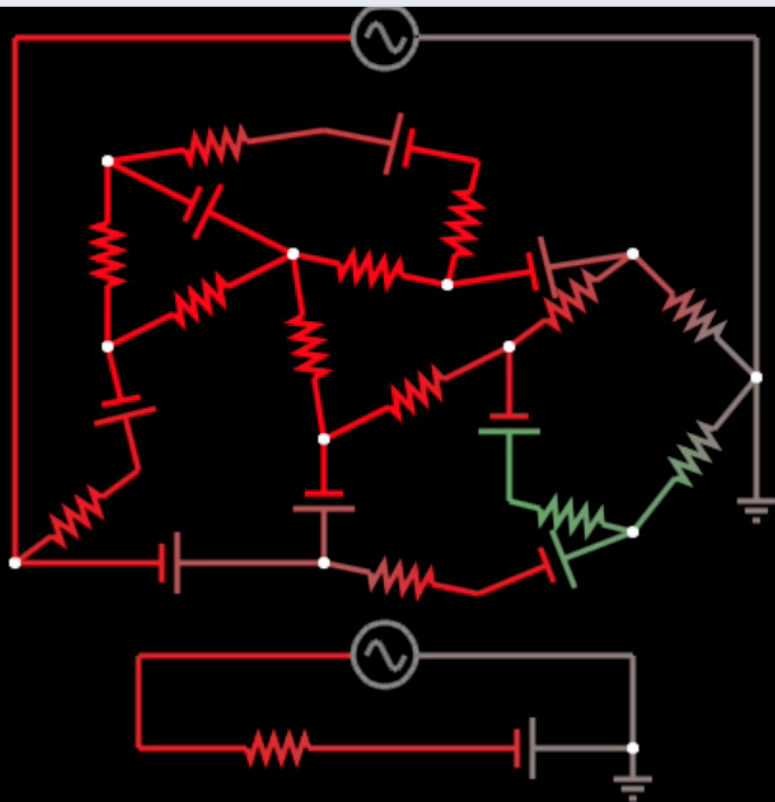
Equivalentemente  $\mathcal{T}$  he o mesmo



3.31 V

3.31 V

 $t = 3.1 \text{ ms}$ 



3.31 V

3.31 V

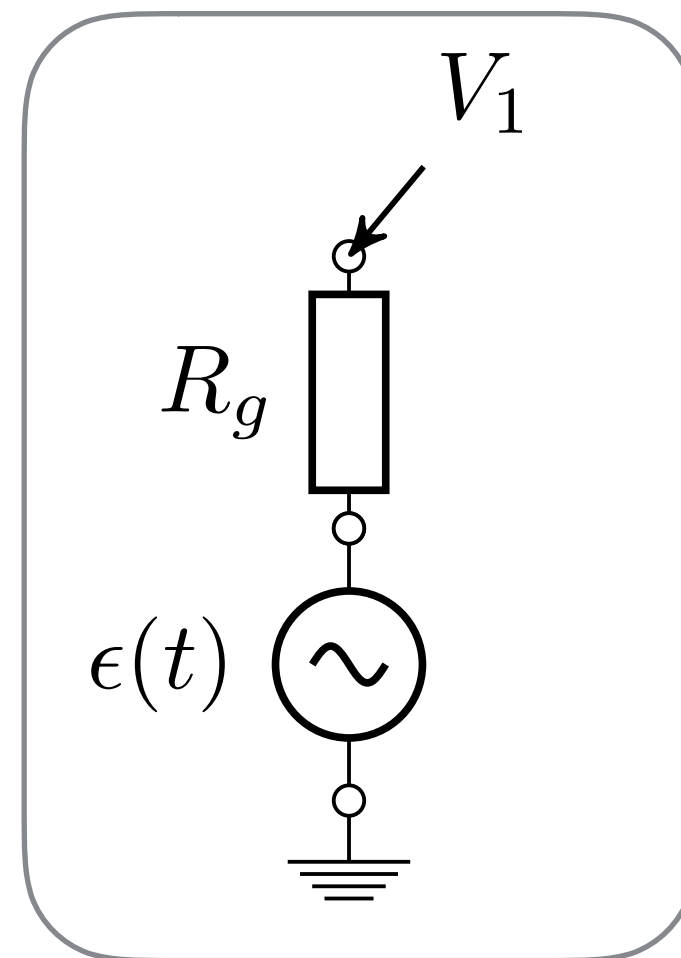
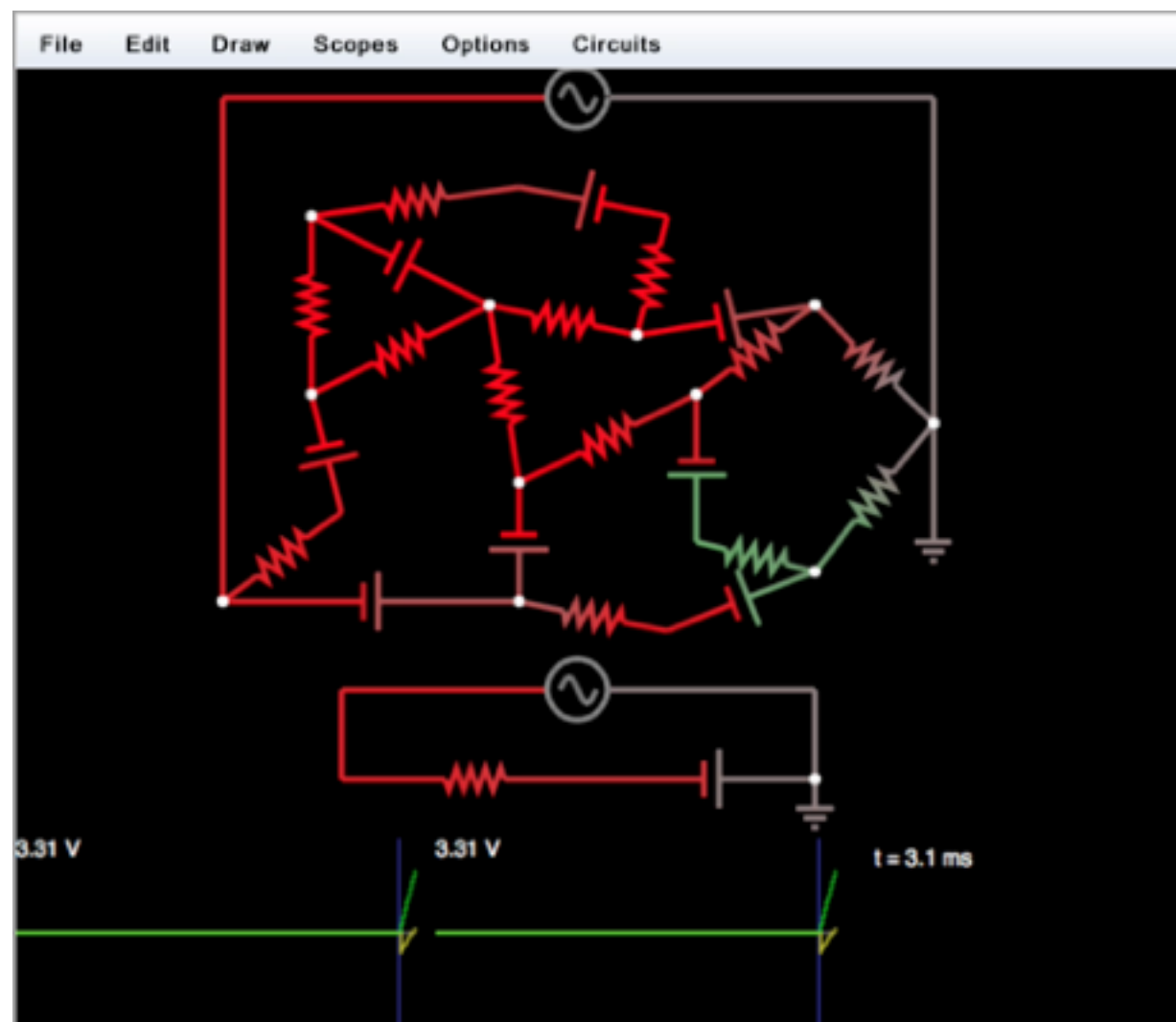
 $t = 3.1 \text{ ms}$



# Gerador de formas de onda



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Equivalente Thevenin



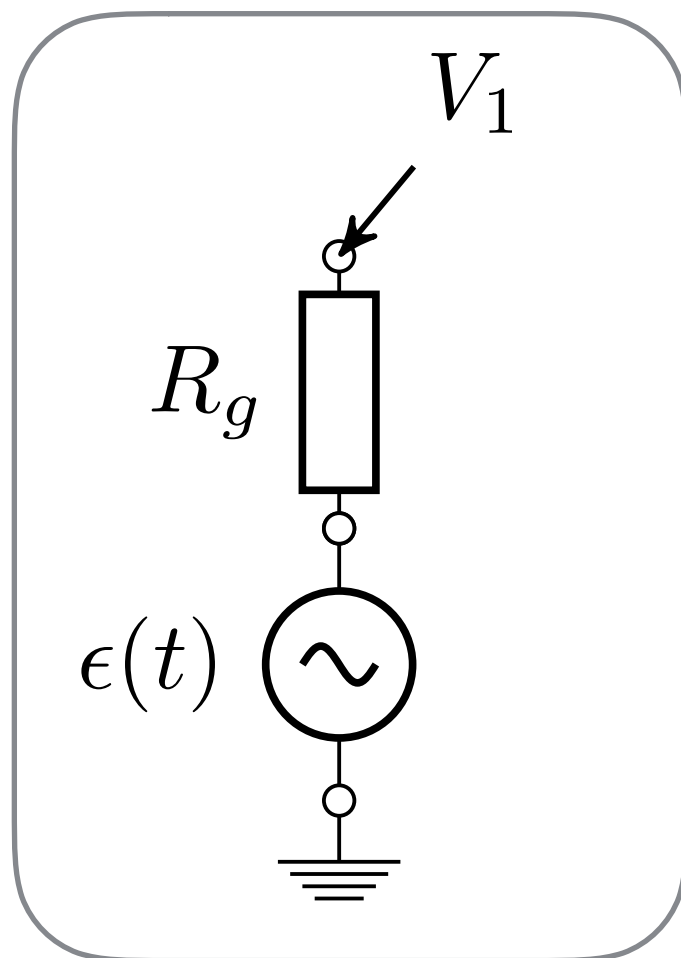
# Gerador de formas de onda



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## I. Aspectos e consequências do equivalente Thevenin:

- I.A) Na prática, todo gerador possui uma resistência interna (ou impedância interna)
- I.B) Quando carregado (terminais conectados em algum circuito), a tensão no circuito poderá ser significativamente diferente da tensão de nominal de circuito aberto (quando os terminais não estão conectados)
- I.C) Sabendo o valor de  $R_g$  (ou  $R_{thevenin}$ ), e a impedância do circuito, pode-se estimar precisamente a tensão sobre o circuito.



Equivalente Thevenin