

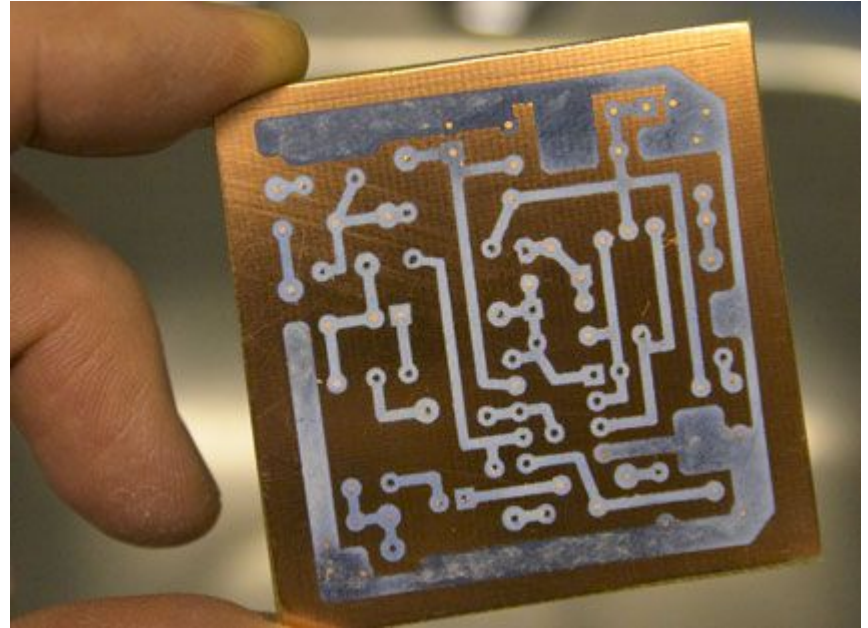


# Eletrônica básica

Identificação de Componentes

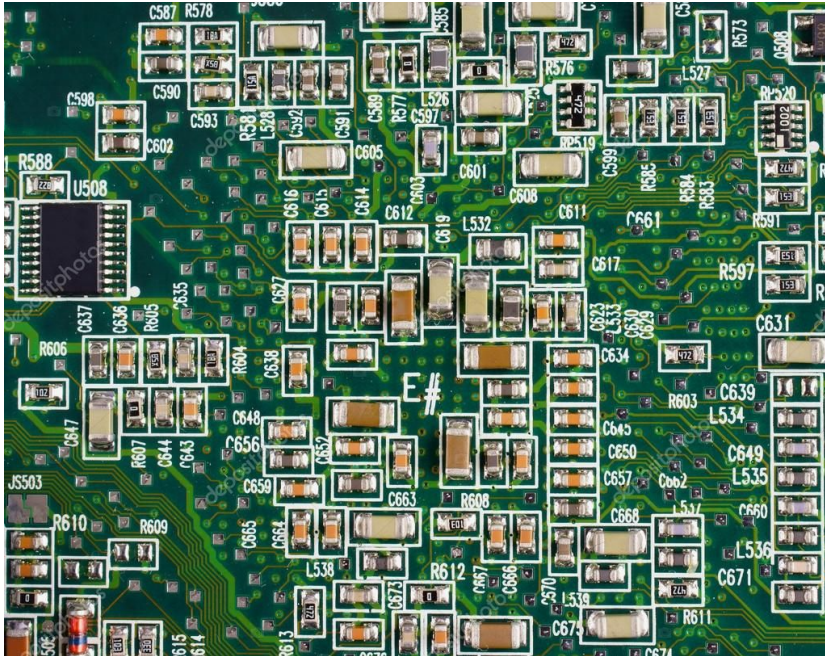
Hardware Livre  
USP

# PCB (Printed Circuit Board)

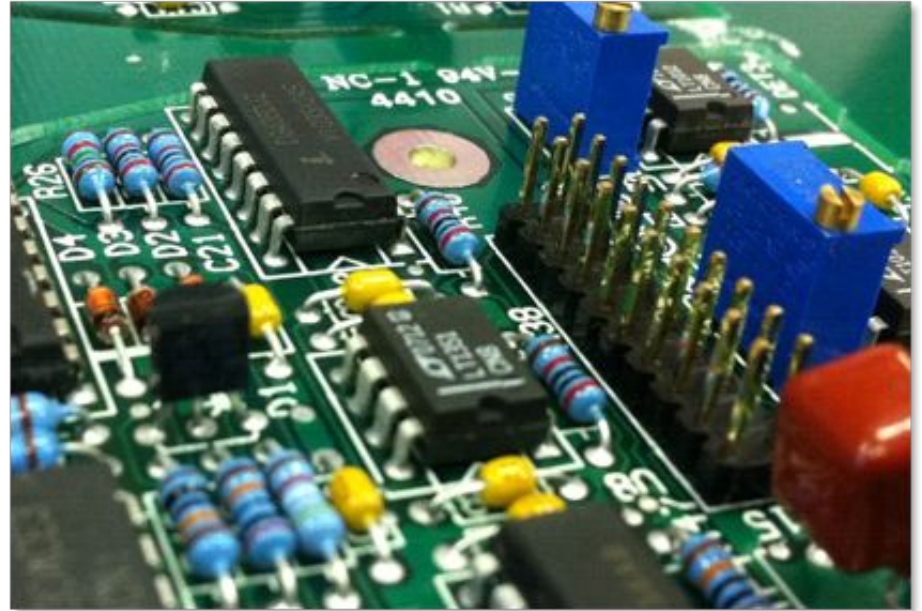


# SMD vs PHT

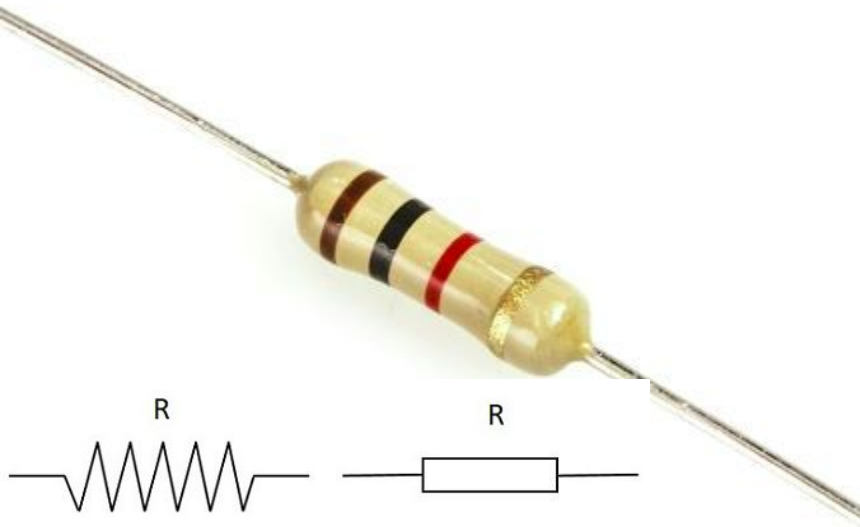
## SMD - Surface mount Device



## PTH - Pin Through Hole



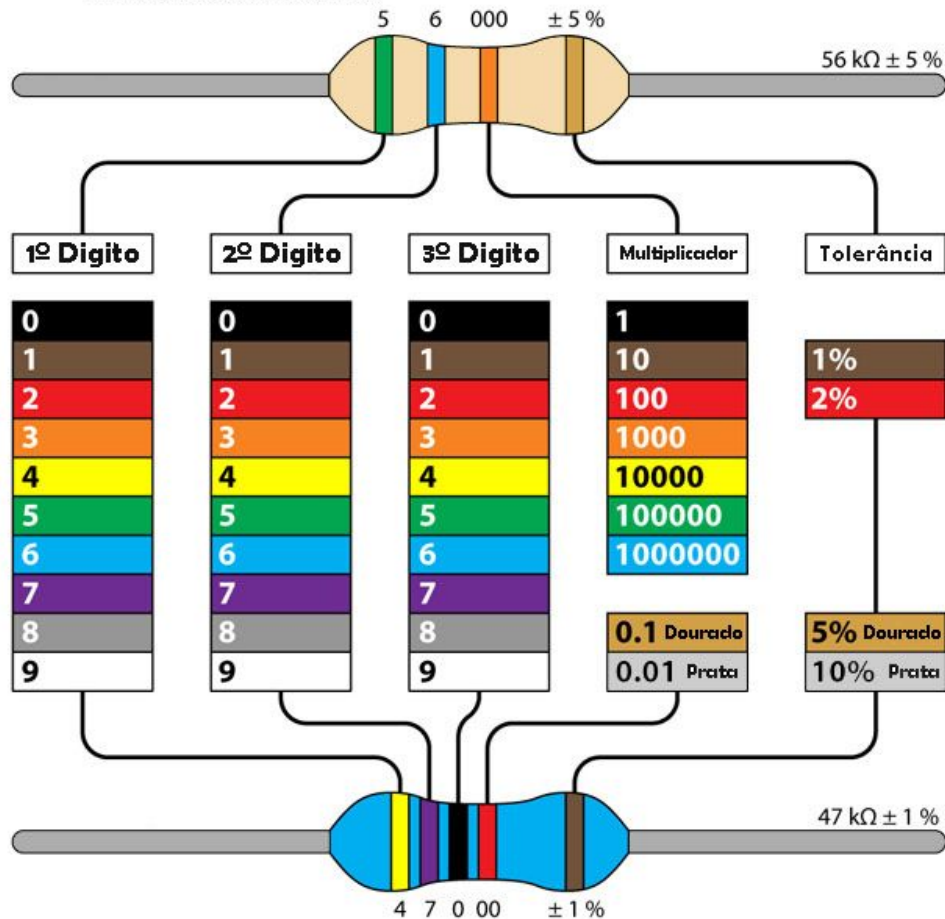
# Resistor



Symbol for a fixed resistor

## Tabela de Cores dos Resistores

ComoFazerAsCoisas.com.br

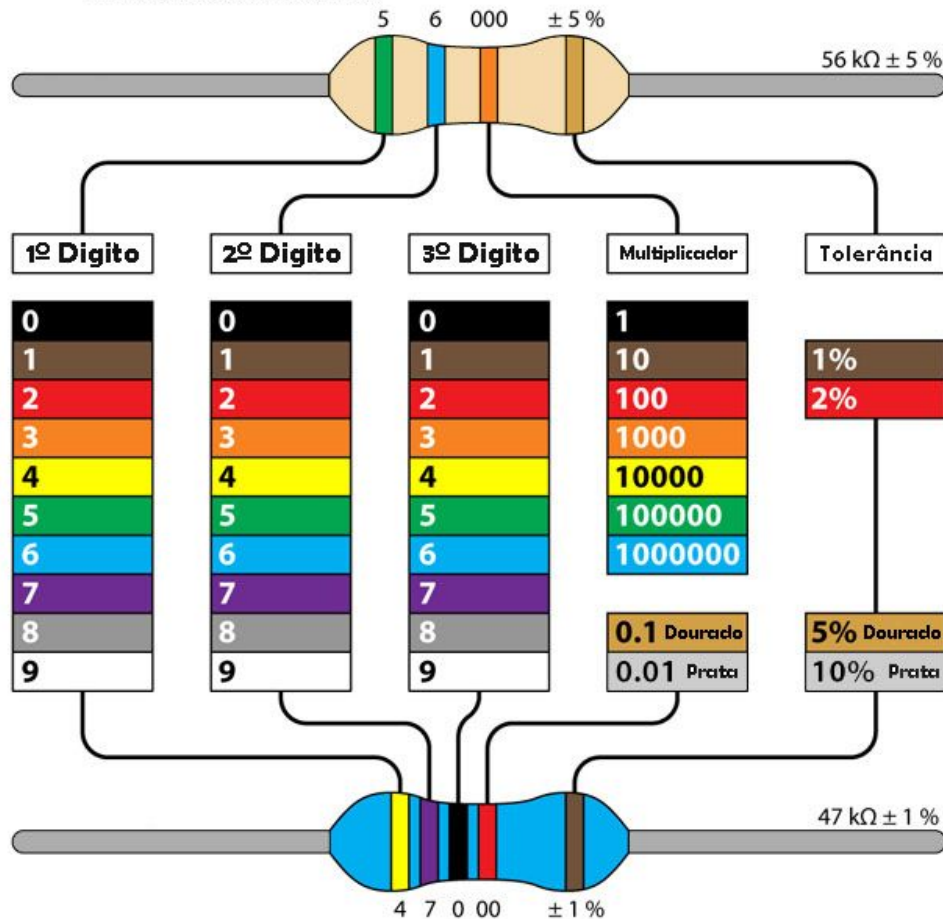




# Resistor

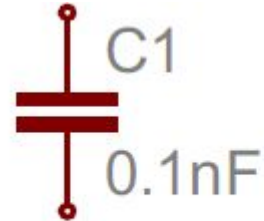
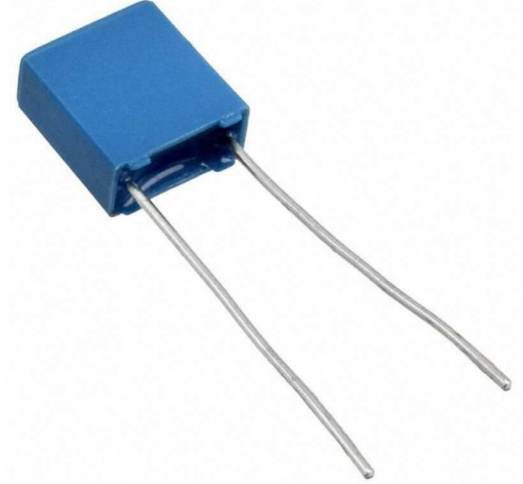
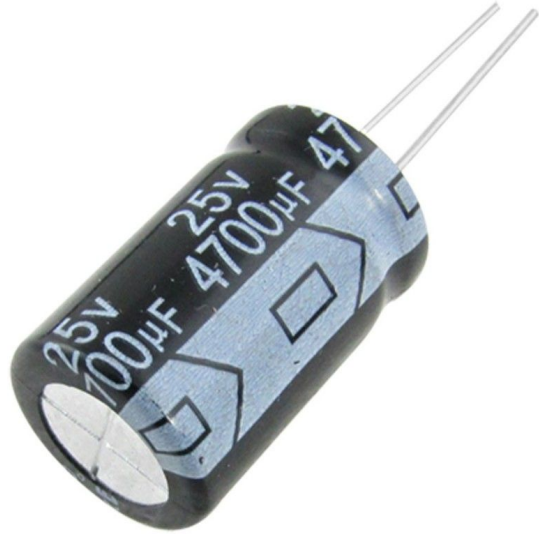
## Tabela de Cores dos Resistores

ComoFazerAsCoisas.com.br

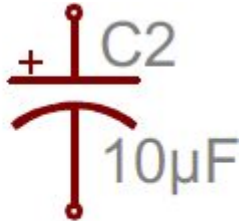


Unidade SI : Ohm

# Capacitor



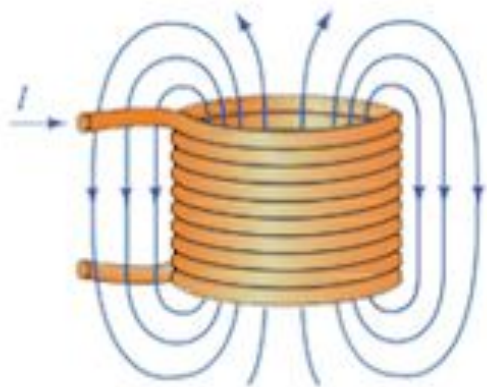
Non-polarized



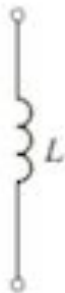
Polarized

Unidade SI : Farad

# Indutores



Indutor básico



Símbolo do indutor ideal



Laminado



Unidade SI : Henry



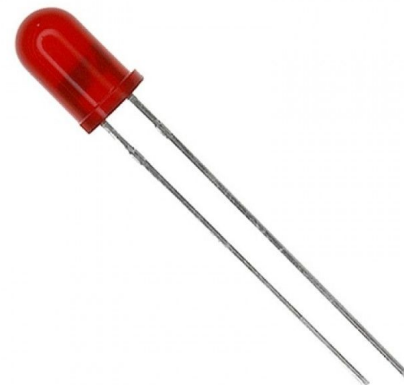
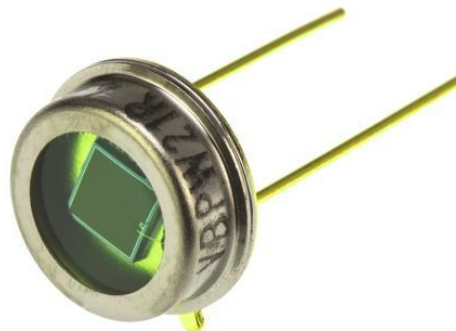
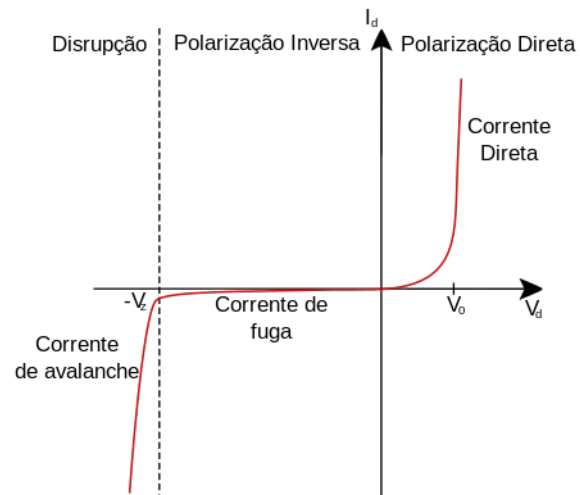
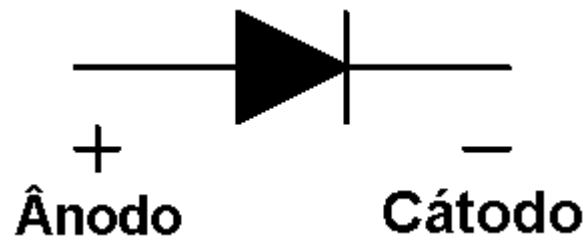
**ANZO**

CONTROLES ELÉTRICOS

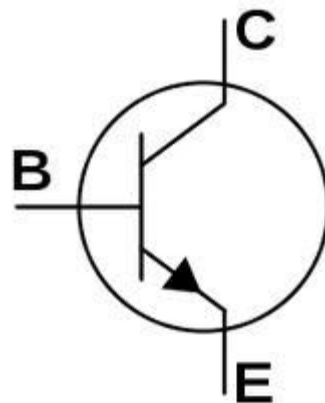




# Diodo



# Transistores



TO-264



TO-220



TO-263



TO-126



TO-252

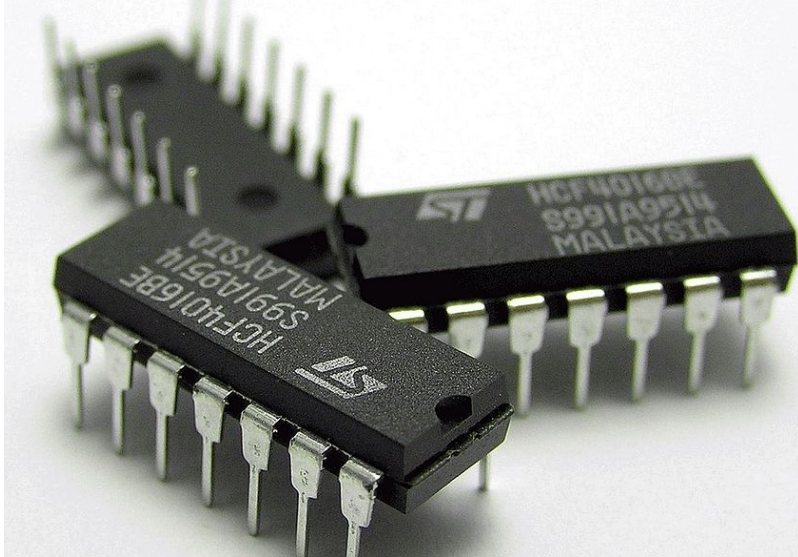


TO-92



SO-223

# Circuitos integrados

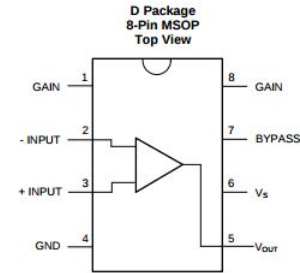


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LM386

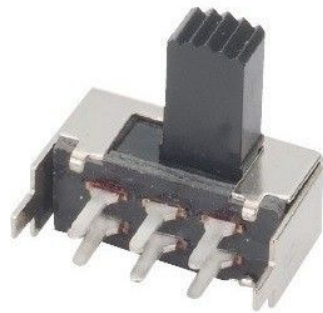
## 5 Pin Configuration and Functions



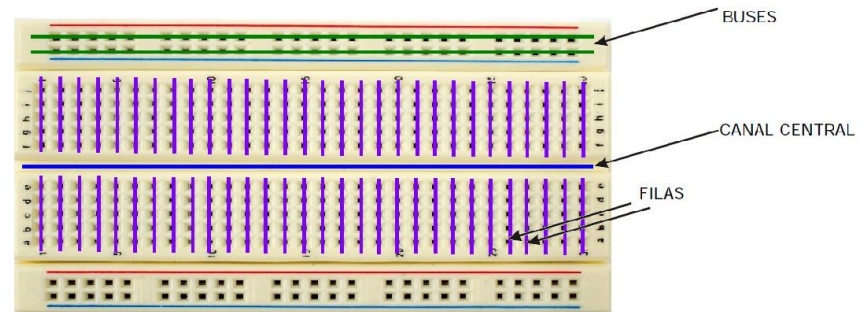
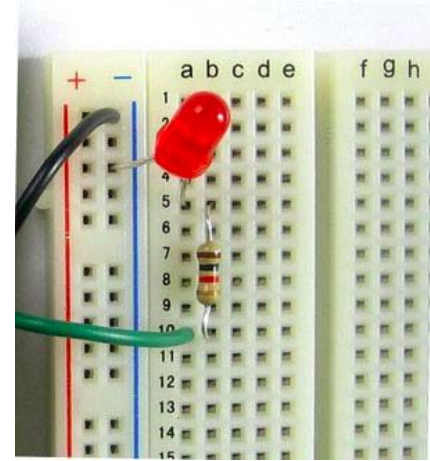
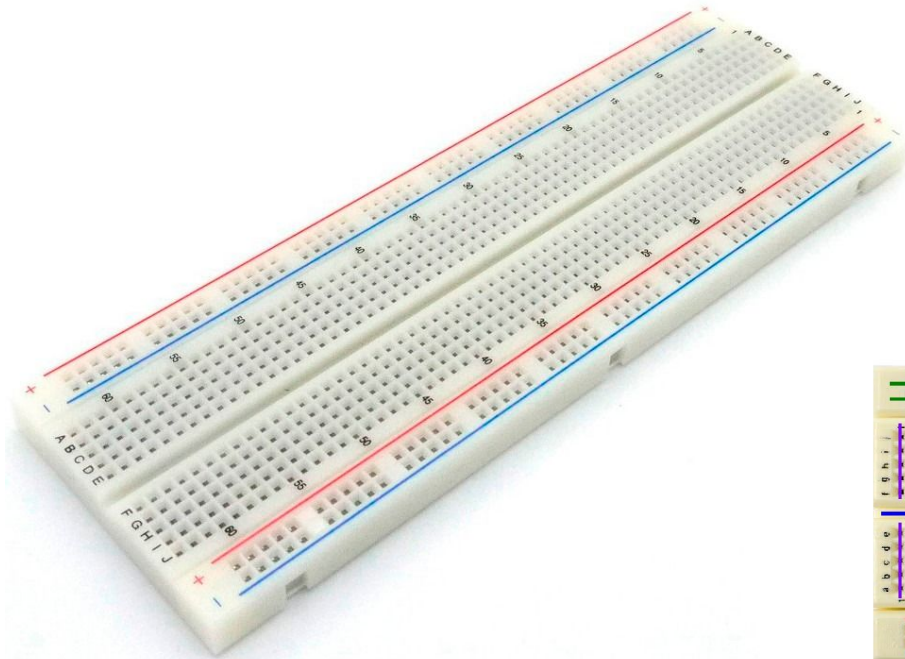
Pin Functions

PIN		TYPE	DESCRIPTION
NAME	NO.		
GAIN	1	–	Gain setting pin
–INPUT	2	I	Inverting input
+INPUT	3	I	Noninverting input
GND	4	P	Ground reference
V <sub>OUT</sub>	5	O	Output
V <sub>S</sub>	6	P	Power supply voltage
BYPASS	7	O	Bypass decoupling path
GAIN	8	–	Gain setting pin

# Botões

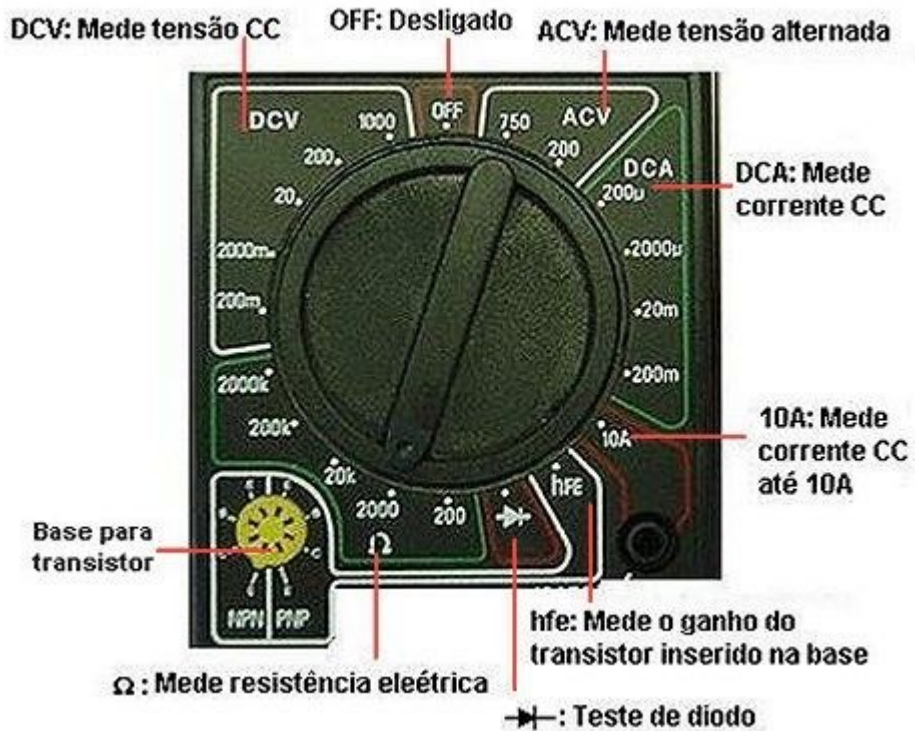


# Protoboard





# Multímetro, seu amigo fiel





Vamos medir coisas com um multímetro e aprender a usá-lo?