

Electronics Resistor Arrays

Terry Sturtevant

Wilfrid Laurier University

April 7, 2011

Resistor arrays

Here is a resistor array.

Here is a resistor array.



Here is another resistor array.

Here is another resistor array.

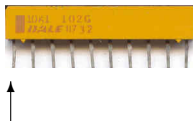


Note that each resistor array has a dot or block at one end.

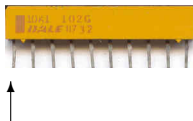
Note that each resistor array has a dot or block at one end.



Note that each resistor array has a dot or block at one end.

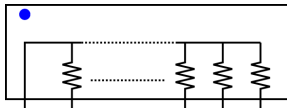


Note that each resistor array has a dot or block at one end.

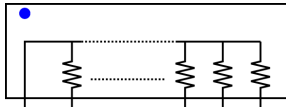


The pin at the end with the dot or block is called the **common pin**.

common pin

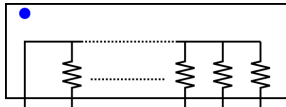


common pin



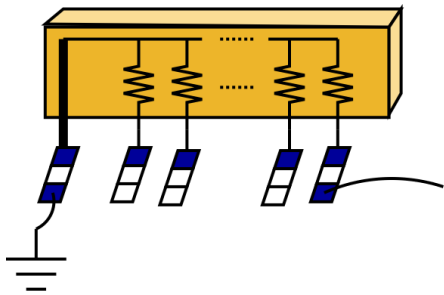
A **resistor array** is convenient when you need several resistors which will all have one end connected to the same point in a circuit.

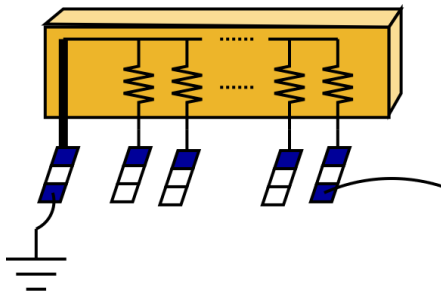
common pin



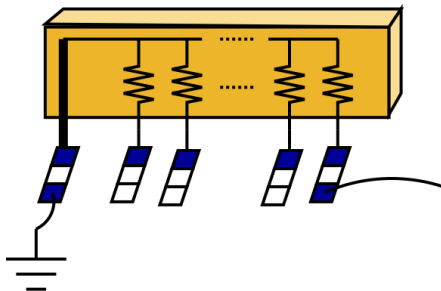
A **resistor array** is convenient when you need several resistors which will all have one end connected to the same point in a circuit.

A resistor array is especially convenient to replace all of the individual resistors for a DIP switch.





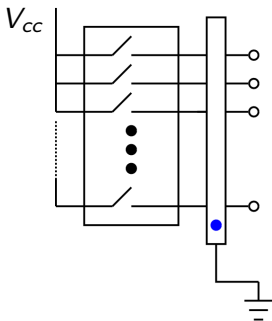
It would look something like this in 3 dimensions.



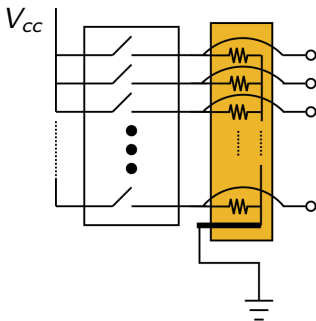
It would look something like this in 3 dimensions.
(Only some breadboard holes are shown for simplicity.)

A resistor array can replace all of the pull-up or pull-down resistors for a DIP switch.

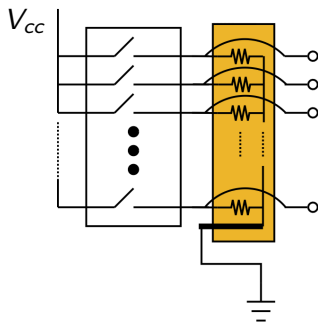
A resistor array can replace all of the pull-up or pull-down resistors for a DIP switch.



A resistor array can replace all of the pull-up or pull-down resistors for a DIP switch.



A resistor array can replace all of the pull-up or pull-down resistors for a DIP switch.



This shows schematically where the connection is for each signal.