

THE SYMBOL USED FOR A RESISTOR

As you may know the symbol, used in a circuit diagram, for a resistor has changed over the years. Originally, to show its opposition to the flow of electric current, it was shown as a zigzag line. More recently the symbol was changed to a 'rectangle'.

RESISTOR VALUES

As you know, resistance is measured in 'Ohms' and this is represented by the Greek letter 'Omega' or Ω

Thus resistor values would be written as follows:

Examples: 600 Ω , 22 Ω , 2200 Ω

1000 Ohms can also be called 1kOhm or 1k Ω

Thus 2200 Ω can also be written as 2.2 k Ω

1000,000 Ω is 1M Ω or 1 M Ω

330,000 Ω can be written as 3.3 M Ω

Typewriters did not have the " Ω " symbol so a new scheme was developed that used letters from our own alphabet.

"R" was used to stand for "Ohms" or " Ω "

"K" was used to stand for "kOhms" or "k Ω "

"M" was used to stand for "M Ω " or "M Ω "

Thus 36 Ω would be written as 36R

10k Ω would be written as 10K

5M Ω would be written as 5M

Values incorporating the decimal point were written in a special way:

2.4 Ω is written as 2R4

If the resistance is written in the form "2.4 Ω " it is quite possible for the little decimal point to be missed. The value would then become 24 Ω . This would be very important.

The letter is there put where the decimal point would be. This would eliminate and such errors.

Thus 3.3k Ω is written as 3K3 and 5.6M Ω as 5M6