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10

Basic Electronics
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The following table
presents some common
calculations using
Ohm's Law and Joule's

Where To
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Law. In these
calculations: $V =$
voltage (in volts) $I =$
current (in amps) $R =$
resistance (in ohms) $P =$
power (in watts)
Unknown Value.
Formula. Voltage.

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dummies

G ' 1 R (for D &C

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circuit) $G = \frac{1}{R^2 + X^2}$.

(for A C circuit) $X_C = \frac{1}{2\pi f C}$

$X_L = 2\pi f L$ $L = \frac{X_L}{2\pi f}$

$Z = \sqrt{R^2 + (X_L - X_C)^2}$

$Z = \sqrt{R^2 + X^2}$ (for R and X

in parallel) $Q = \frac{X_L}{R}$

or $\frac{X_C}{R}$.

ELECTRONIC

FORMULAS

The following table

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power (in watts)
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resistance, conductance,
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Sheet By Doug Lowe

As you design and use electronic circuits, you invariably find yourself scratching your head trying to remember what color stripes are on a 470 resistor or what pin on a 555 Timer IC is the trigger input.

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You can find below a table with every formula for the Power law and Ohm's law. This table will be useful to solve problems and to understand examples.

Table 1: Ohm's law and Power law Formula

Series Circuits:-In series

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circuit, the voltage is
divide between all the
resistors. To calculate
the voltage across a
resistor in series:

Cheat Sheet : Ohm's
law, Power law, Series
and Parallel ...

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tables and Basic Circuits

This particular
Electrical Formulas
Excel Sheet will assist
you to get a quick
answer to the quantities
related to the following
topics: 1 – Basic
Concepts of Electricity
2 – Electrical Quantities
and Components

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Electrical Formulas

Excel Sheet | Electrical
Academia

When doing circuit analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and

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resistance. Using Kirchhoff's laws, you can simplify a network of resistors using a single equivalent resistor. You can also do the same type of calculation to obtain [...]

Circuit Analysis For
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Today Electrical
Engineering XYZ
shares free formula
sheet on basic electrical
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and topics. The formula sheet contains different formulas on 13 DC and AC topics and is important for all Engineering students who are doing their engineering, and for those who are appearing in various competitive tests.

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Electrical Engineering
Formula Sheet

Figure 1–2. (a) 75A (b)
80A (c) 100A (d) 125A

Answer: (c) 100A. Step
1: Convert 125 percent
to a decimal: 1.25 Step
2: Multiply the value of
the 80A load by 1.25 =
100A. c Example 2.

Question: The
maximum continuous
load on an overcurrent
device is limited to 80

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INTRODUCTION TO UNIT

1—ELECTRICIAN'S MATH AND BASIC ...

Electrical & electronic
units. Ampere (A) dB-
milliwatt (dBm) dB-
watt (dBW) Decibel
(dB) Farad (F) Kilovolt-
amp (kVA) Kilowatt

Where To Download Basic (kW) Kilowatt-hour (kWh) Formula Cheat Sheet

Electrical formulas |

Electronic formulas

Formula True Power

Power Factor =

Apparent Power getcalc

Formula DC Power:

Horsepower Volts x

Amperes x Eff 745.7

Watts = Volts x

Amperes Volts x

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Amperes Kilowatts =
1000 Volts x Amperes x
hours Kilowatt-hours =
1000 Eff Efficiency
getcalc

Electrical Engineering
Formulas Ohms Law
Returns the round off
number down to the
nearest multiple of
significance. =FLOOR
(Number, Significance)

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=FLOOR(0.5,1) The answer is 0, as shown in F2. The above-explained cheat sheet of excel formulas examples is implemented in the excel worksheet shown in the following screenshot.

Cheat Sheet of Excel

Formulas | List of

Page 31/36

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nothing no more than this poster to assist you.

Basic Electronics

Theory will keep you reminded with the basic theories in electronics.

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its deep and

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Your Excel formulas
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