

# LED Current Limiting Resistor Calculator

## Introduction

Welcome to my LED Current Limiting Resistor Calculator which will calculate the resistance value you need to protect one or more LEDs from a known input voltage while allowing a specified LED operating current.



## LED Circuit Data

Supply Voltage

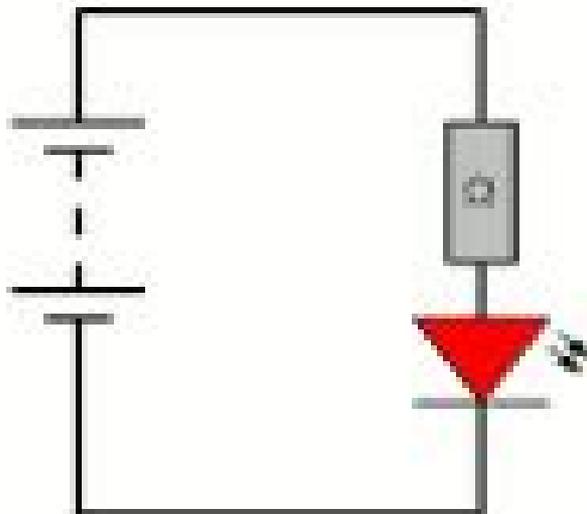
LED Voltage

LED Current

LED Count

Calculate

## Single LED



|                       |         |
|-----------------------|---------|
| Input Voltage         | 6V      |
| Resistor Voltage      | 3V      |
| Resistor Current      | 20mA    |
| Resistor Value        | 150 ohm |
| Resistor Power        | 0.06W   |
| Suggested Value @ 20% | 220 ohm |
| Suggested Value @ 10% | 180 ohm |
| Suggested Value @ 5%  | 160 ohm |
| Suggested Value @ 2%  | 154 ohm |

# How To Calculate Led Current Limiting Resistor

**G Psacharopoulos**



## How To Calculate Led Current Limiting Resistor:

*Electronic Circuit Analysis* B. Visvesvara Rao, 2012 *Electronic Circuit Analysis* is designed to serve as a textbook for a two semester undergraduate course on electronic circuit analysis It builds on the subject from its basic principles over fifteen chapters providing detailed coverage on the design and analysis of electronic circuits *Programming the PIC Microcontroller with MBASIC* Jack Smith, 2005-07-19 The Microchip PIC family of microcontrollers is the most popular series of microcontrollers in the world However no microcontroller is of any use without software to make it perform useful functions This comprehensive reference focuses on designing with Microchip s mid range PIC line using MBASIC a powerful but easy to learn programming language It illustrates MBASIC s abilities through a series of design examples beginning with simple PIC based projects and proceeding through more advanced designs Unlike other references however it also covers essential hardware and software design fundamentals of the PIC microcontroller series including programming in assembly language when needed to supplement the capabilities of MBASIC Details of hardware software interfacing to the PIC are also provided **BENEFIT TO THE READER** This book provides one of the most thorough introductions available to the world s most popular microcontroller with numerous hardware and software working design examples which engineers students and hobbyists can directly apply to their design work and studies Using MBASIC it is possible to develop working programs for the PIC in a much shorter time frame than when using assembly language Offers a complete introduction to programming the most popular microcontroller in the world using the MBASIC compiler from a company that is committed to supporting the book both through purchases and promotion Provides numerous real world design examples all carefully tested

**Electronic Circuit Analysis:** Rao, 2011 *Electronic Circuit Analysis* is designed to serve students of a two semester undergraduate course on electronic circuit analysis It builds on the subject from its basic principles over fifteen chapters providing detailed coverage on the design and analysis of electronic circuits **Teardowns: Learn How Electronics Work by Taking Them Apart** Bryan Bergeron, 2010-08-05 *Learn Practical Electronics From a Skilled Mentor* The text is written as if Dr Bergeron who is a highly experienced electronics practitioner is speaking directly to the reader with a point by point commentary about each teardown complete with clear explanations of the operation and function of every component By the time the product is completely disassembled the reader understands the design tricks component selection and packaging choices that enabled the product to reach the market From the Foreword by Forrest M Mims III Amp up your knowledge of electronics by deconstructing common devices and analyzing the revealed components and circuitry **Teardowns Learn How Electronics Work by Taking Them Apart** contains 14 projects that expose the inner workings of household appliances workbench measuring instruments and musical equipment Discover how resistors capacitors sensors transducers and transistors function in real circuitry You ll even get details on custom modifications to electric guitar pickups an effects pedal and a tube amp Essential instructions for safely launching your own teardowns are also included in this hands on guide Learn

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*Robot Building for Beginners* David Cook, 2010-07-30 I wrote this book because I love building robots I want you to love building robots too It took me a while to learn about many of the tools and parts in amateur robotics Perhaps by writing about my experiences I can give you a head start David Cook *Robot Building for Beginners* Second Edition is an update of David Cook s best selling *Robot Building for Beginners* This book continues its aim at teenagers and adults who have an avid interest in science and dream of building household explorers No formal engineering education is assumed The robot described and built in this book is battery powered and about the size of a lunchbox It is autonomous That is it isn t remote controlled You ll begin with some tools of the trade and then work your way through prototyping robot bodybuilding and eventually soldering your own circuit boards By the book s end you will have a solid amateur base of understanding so that you can begin creating your own robots to vacuum your house or maybe even rule the world

**PIC Microcontrollers: Know It All** Lucio Di Jasio, Tim Wilmshurst, Dogan Ibrahim, John Morton, Martin P. Bates, Jack Smith, David W Smith, Chuck Hellebuyck, 2007-07-30 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject This material ranges from the basics to more advanced topics There is also a very strong project basis to this learning The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation He she will also be able to work through real life problems via the projects contained in the book The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace

Section I An Introduction to PIC Microcontrollers Chapter 1 The PIC Microcontroller Family Chapter 2 Introducing the PIC 16 Series and the 16F84A Chapter 3 Parallel Ports Power Supply and the Clock Oscillator

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**A Geek Girl's Guide to Electronics and the Internet of Things** Audrey O'Shea,2020-09-16 A straightforward demystification of electronics and the Internet of Things A Geek Girl's Guide to Electronics and the Internet of Things breaks down and simplifies electronics and the Internet of Things for the layperson Written by a leading technical school instructor with a talent for bringing complex topics to everyday people this book provides concrete examples and practical advice for anyone interested in building repairing or studying electronics and functional Internet of Things IoT devices A Geek Girl's Guide to Electronics and the Internet of Things explores a wide range of topics including among others Ohm's and Watt's Law Series and Parallel Circuits Diodes transistors capacitors and relays Motors and Pulse with Modulation Using light to control electricity Photovoltaic Cells and Transducers Enhancing circuits with Arduino Connecting circuits to networks The distinguished author's website includes videos to help you build and enhance projects along with deeper information to enrich your learning Additionally the book goes beyond theory and teaches readers how circuit components become IoT devices and provide the data that drive our modern world The combination of hands on activities and solid pedagogy ensures

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## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **How To Calculate Led Current Limiting Resistor**

In a global inundated with monitors and the cacophony of immediate communication, the profound power and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous assault of sound and distractions. However, situated within the lyrical pages of **How To Calculate Led Current Limiting Resistor**, a captivating perform of literary beauty that pulses with fresh emotions, lies an unique trip waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus courses viewers on a psychological odyssey, lightly exposing the latent possible and profound influence embedded within the complex web of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is central subjects, dissect its fascinating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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