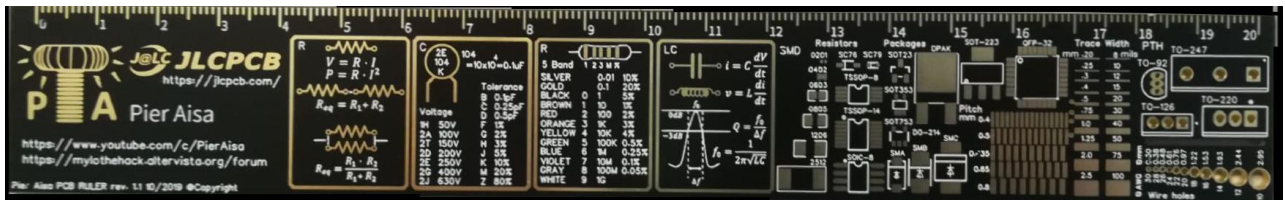
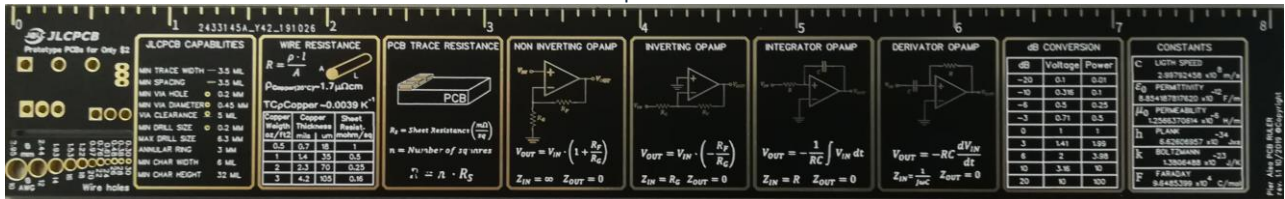


- Available in 5 colors
- Double scale in cm and inches
- PCB Rules and capabilities
- All common SMD PTH shapes and holes
- Basic Engineering formulas for passives
- Physics constants and conversion tables



Top View



Bottom View

DESCRIPTION

PcbRuler is a tool designed for engineers and application designers, intended to give in a quick manner the most common and practical formulas used in electrical engineering together with the most used PCB shapes and rules. It’s designed to be small and to be kept in a pocket.

TECHNICAL DATA

| PARAMETER | VALUE | UNIT |
|------------------------------------|---------------------------------|------|
| Dimensions Length x Width | 207 x 31 | mm |
| Colors | BLACK, RED, BLUE, YELLOW, WHITE | |
| PCB thickness (RED, YELLOW) | 1.6 | mm |
| PCB thickness (BLUE, WHITE, BLACK) | 2.4 | mm |
| Layers | 2 | |
| Surface finish | ENIG-RoHS | |
| Copper Weight | 2 | oz |
| Material Details | FR4-Standard Tg 130-140C | |

ENGINEERING INFORMATION

PcbRuler is organized in 12 areas with the following information:

1. **RESISTOR:** OHM LAW, POWER, SERIES RESISTANCE, PARALLEL RESISTANCE
2. **CAPACITOR:** CERAMIC CAPACITOR MARKING
3. **RESISTOR TABLE:** 5 BANDS COLOR TABLE
4. **CAPACITOR, INDUCTOR:** VOLTAGE, CURRENT EQUATIONS, LC RESONANCE FREQUENCY, Q FACTOR
5. **SMD:** RESISTOR PACKAGES, SOT PACKAGES, DPAK, DO-214 SMA, SMB, SMC, QFP-32, PITCH, TRACE WIDTH
6. **PTH:** TO-126, TO-92, TO-220, TO-247, PACAKGES. HOLES AWG FROM 10 to 30, in MM
7. **JLPCB FABRICATION CAPABILITIES:** MINIMUM SIZES FOR HOLES, SILKSCREEN, VIA CLEARANCE
8. **WIRE RESISTANCE:** CALCULATION FORMULAS, COPPER COEFFICIENT
9. **PCB TRACE RESISTANCE:** FORMULAS
10. **OPERATIONAL AMPLIFIERS:** FORMULAS FOR CONFIGURATIONS: INVERTING, NON INVERTING, INTEGRATOR, DERIVATOR
11. **dB CONVERSION TABLE:** VOLTAGES AND POWER
12. **PHYSICS CONSTANTS:** LIGHT SPEED, PERMEABILITY, PLANK, BOLTZMANN, FARADAY

ORDERING INFORMATION

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