

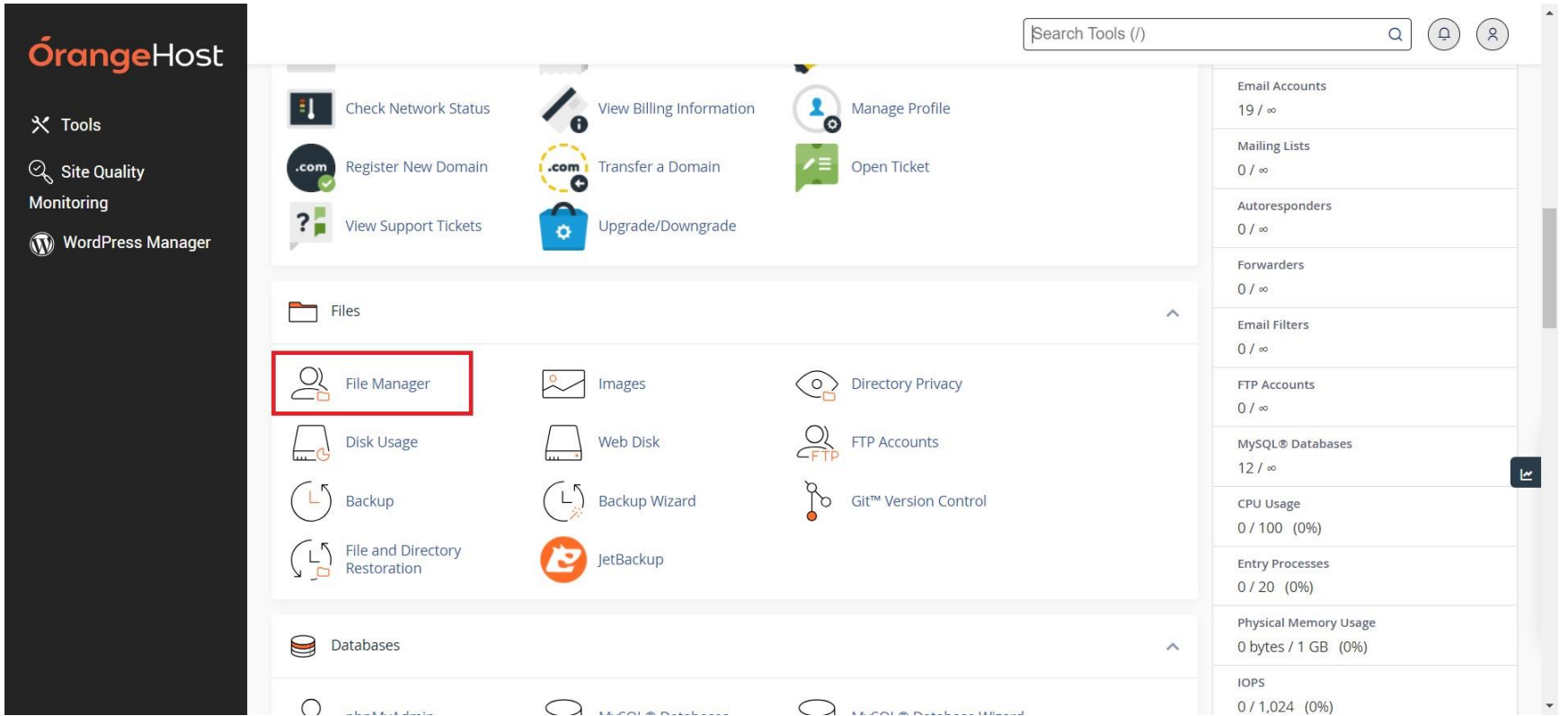
INSTALLATION For 4 Band Resistor Color Code Calculator

Requirements:

Shared web hosting CPanel

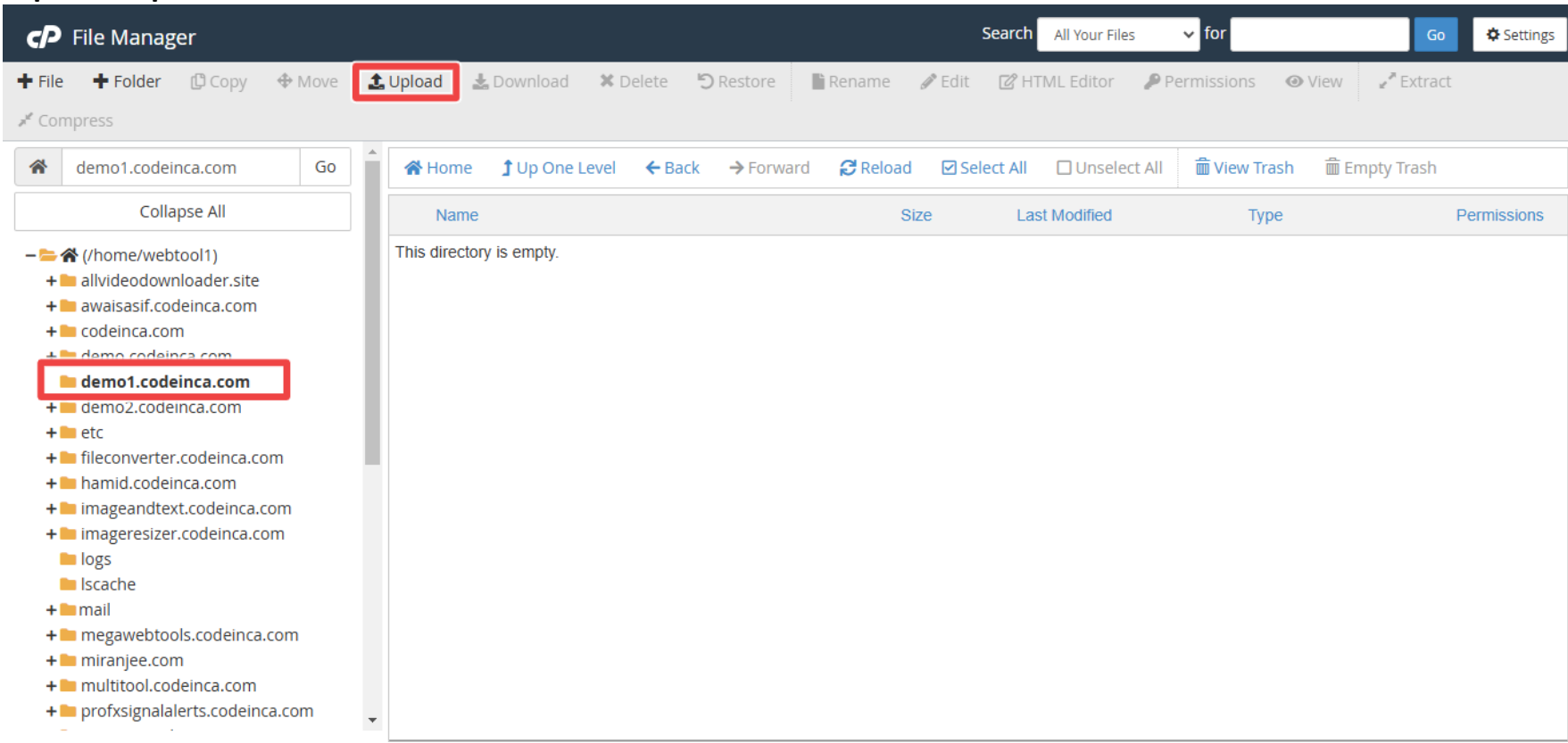
Follow the Below Steps;

Open file Manager



Select your Domain root folder where you want to install

Upload “upload” ZIP file



Select the file you want to upload to “/home/webtool1/demo1.codeinca.com”.

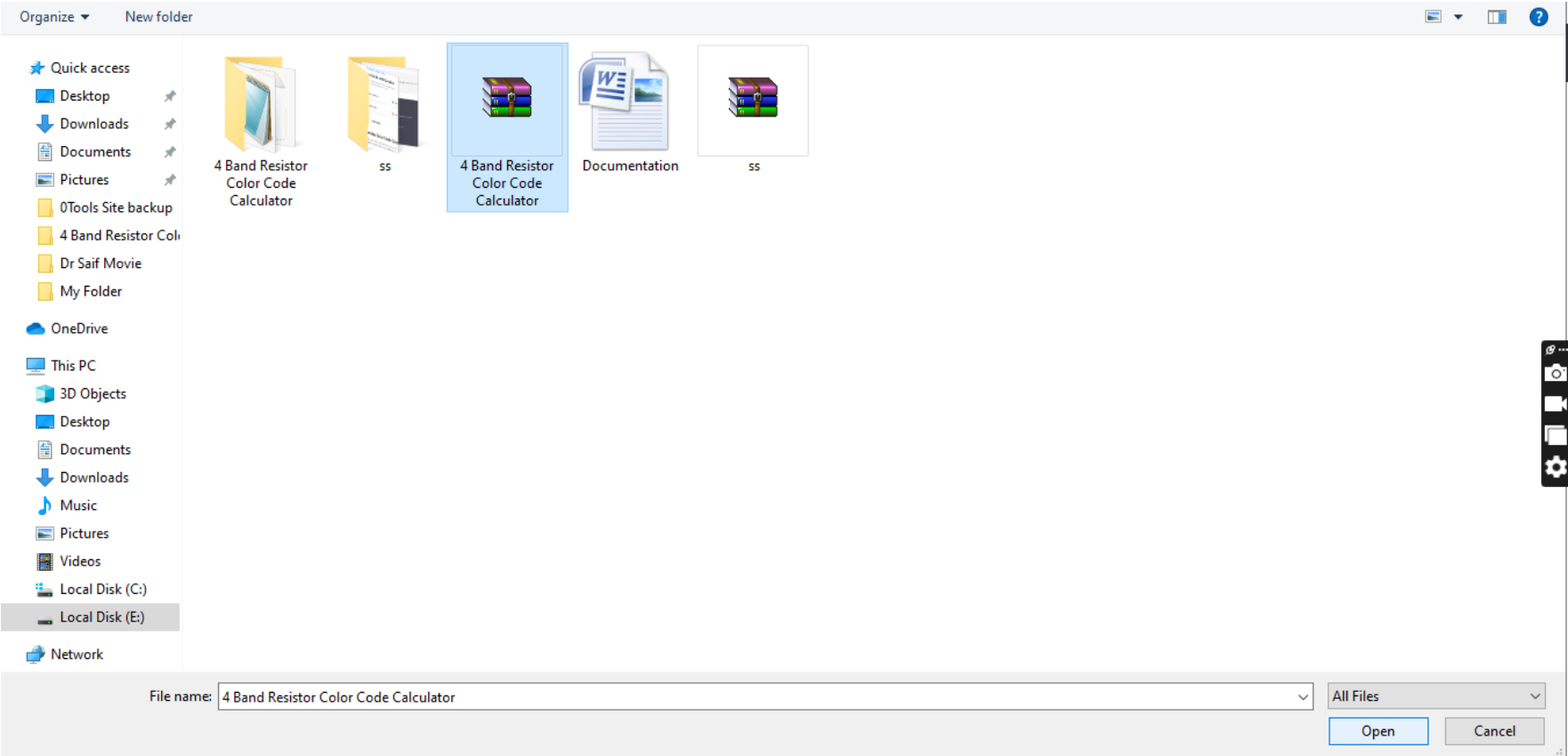
Maximum file size allowed for upload: 2.61 GB

☐ Overwrite existing files

Drop files here to start uploading

Select File

[Go Back to “/home/webtool1/demo1.codeinca.com”](#)



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or

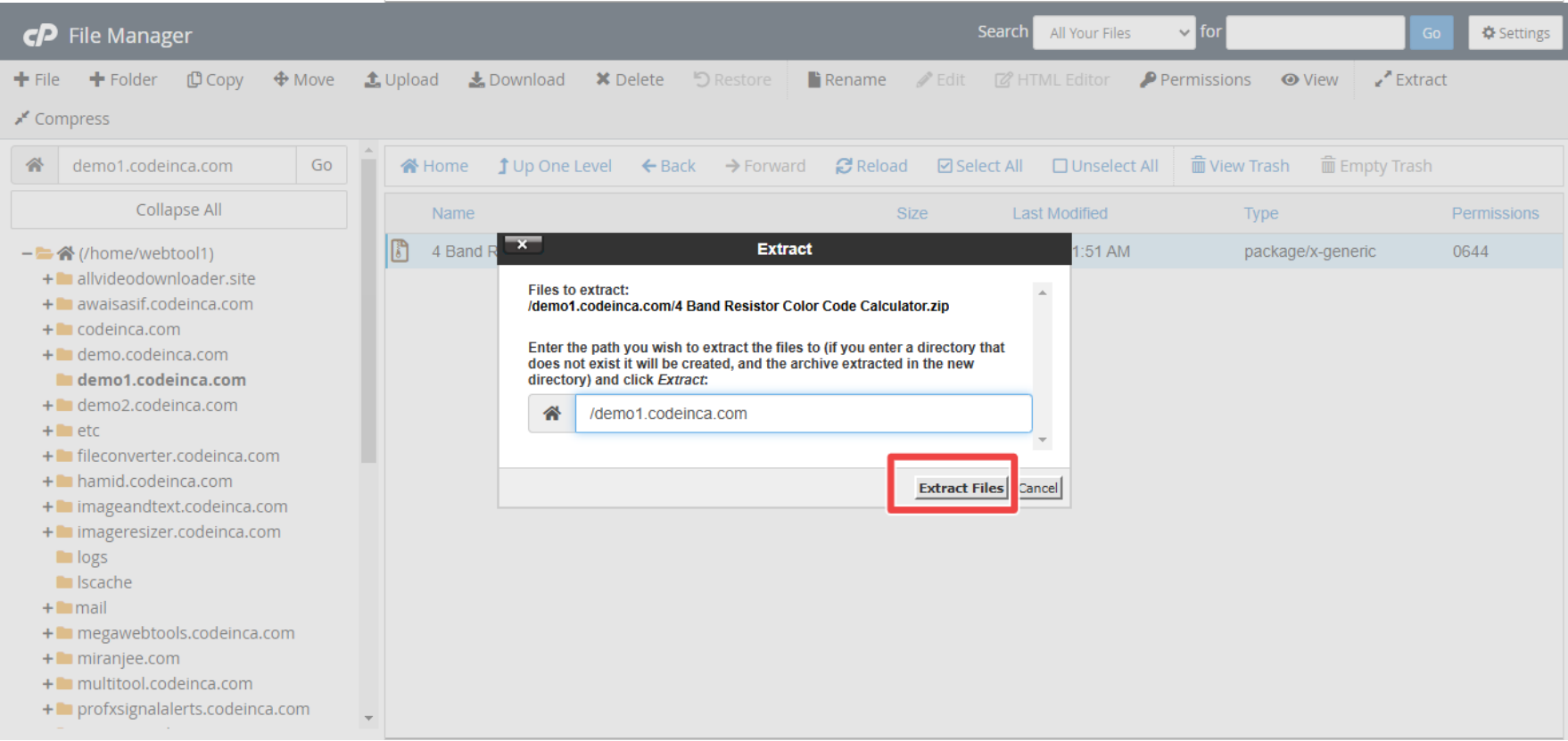
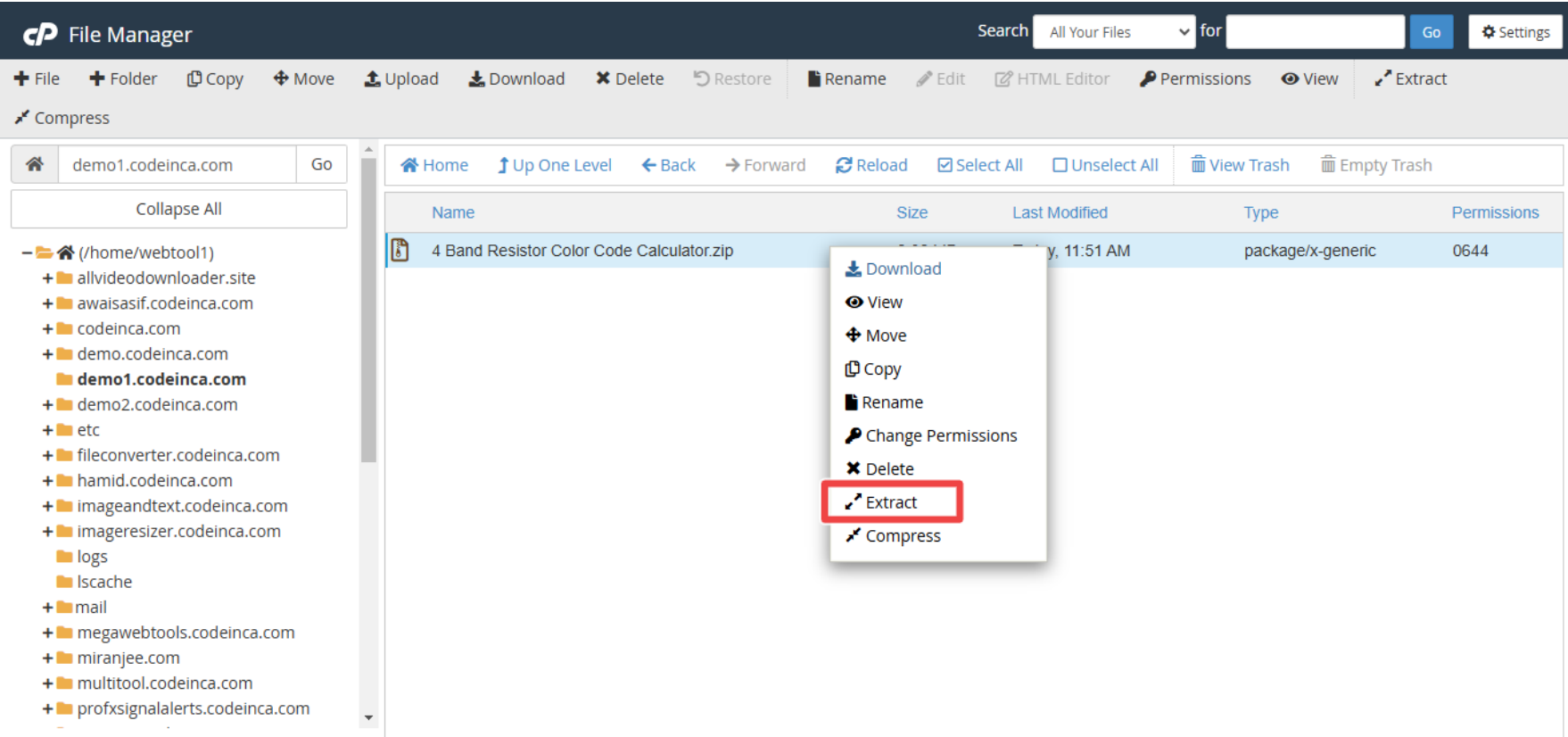
Select File

4 Band Resistor Color Code Calculator.zip

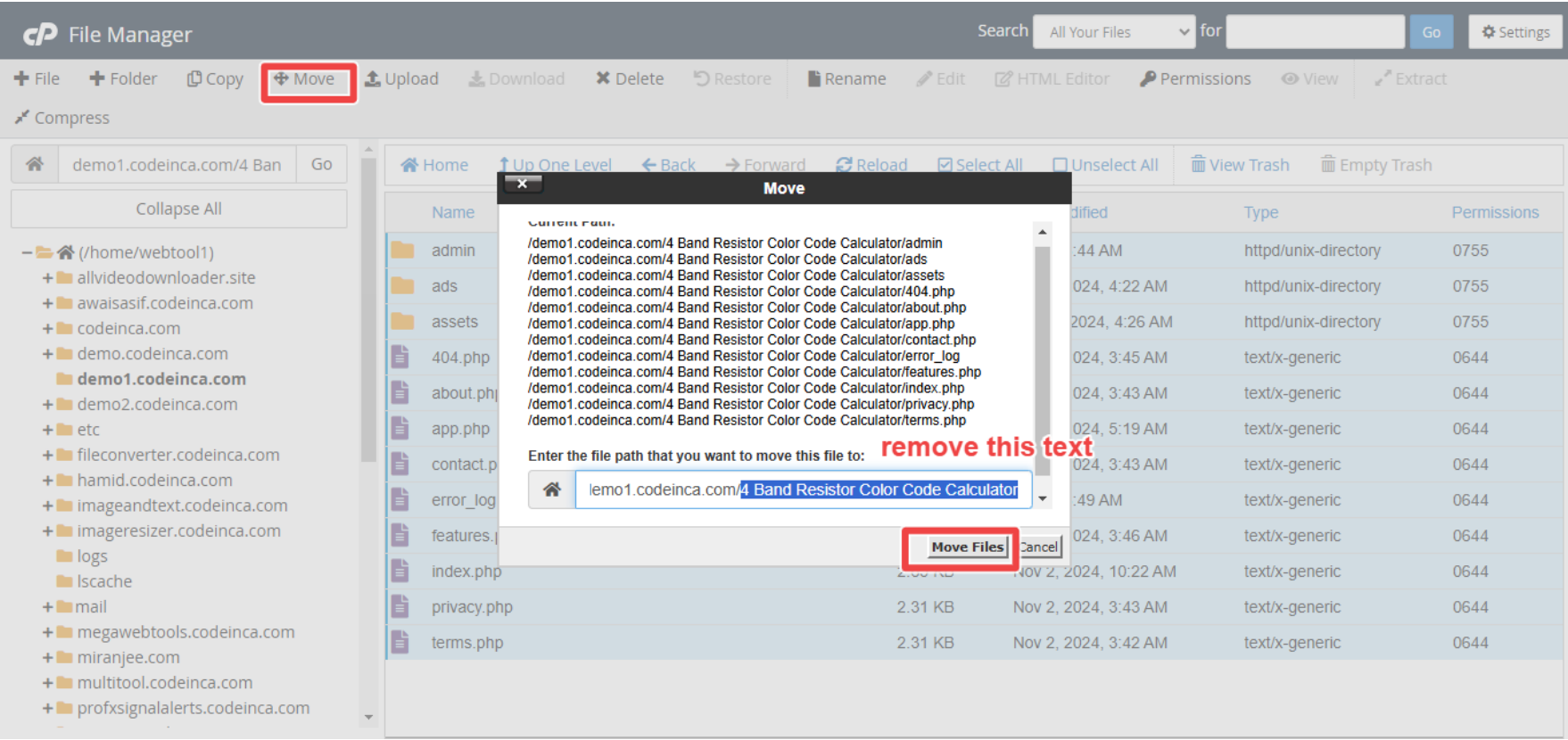
100%

2.36 MB complete

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Move files to main domain root folder



YOU ARE DONE

4Band Resistor Color

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Online 4 Band Resistor Color Code Calculator

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First Band:

Brown

Second Band:

Black

Multiplier:

Red

Tolerance:

Gold (±5%)

Result: 1.00 KΩ (Kilo Ohms) ±5%

What is 4 Color Band Resistor?

As we know a 4 Band Resistor is a type of Fixed Resistor in through hole package with two terminals, these are commonly used in electronic circuits to limit the current and drop the voltage level. These four band Resistor indicates its value through four different colors and their positions. 4 Color Band Resistor will have priority to calculate its value as First Band (First Numerical Digit), Second Band (Second Numerical Digit), Third Band (Multiplier) and Fourth Band (Tolerance).

How to Calculate the Value of 4 Color Band Resistor?

To start decoding the Color of 4 band Resistor we need to identify the First or Last (Tolerance) Band. Most of these component comes with Gold or Silver Color Tolerance band that is Last Band. So we need to position it to the right hand. Here the last tolerance band in right hand side. Now starting with the first color from left hand side. As previously said First Band color numerical value and Second band Color numerical value should be written down as it is. Then third band is multiplier (10th or mmtr). Multiply the written numbers (First, Second digit) with the corresponding multiplier. Now we get the Resistor Value then final Last band is Tolerance band ± in percentage. Finally we get the Value of 4 band Resistor.

4 Band Resistor Color Code Table				
Color and Value	First Band	Second Band	Multiplier	Tolerance
Black (0)	0	0	1 Ω	
Brown (1)	1	1	10 Ω	±1%
Red (2)	2	2	100 Ω	±2%
Orange (3)	3	3	1 kΩ	
Yellow (4)	4	4	10 kΩ	
Green (5)	5	5	100 kΩ	±0.5%
Blue (6)	6	6	1 MΩ	±0.25%
Violet (7)	7	7	10 MΩ	±0.10%
Gray (8)	8	8	100 MΩ	±0.05%
White (9)	9	9	1 GΩ	
Gold (±5%)			0.1Ω	±5%
Silver (±10%)			0.01Ω	±10%

From old school method for remembering the Resistor color code, here is the simple and funny mnemonic: **BB ROY** Great Britain Very Good Wife Gold Silver" here the color code goes as Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Gold and Silver. So the Numeric and Multiplier Number (x10th or mmtr) starts from 0 to 9.

Example to Calculate the Resistor Value.

Consider you are holding a four band Resistor with color code as Red, Red, Brown and Gold.

First Band Red = 2, Second Band Red = 2, Third Band Multiplier = 1 = "x10", Fourth Band Tolerance = ±5%.

22*10*1=220 Ω Ohms with ±5% Tolerance, which means your Resistor will have Resistance value between 231 Ω to 209 Ω.

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Online 4 Band Resistor Color Code Calculator

Our 4 Band Resistor Color Code Calculator is a handy tool designed to help you easily determine the resistance value of 4-band resistors. With a user-friendly interface and accurate calculations, understanding your resistor's value is quick and straightforward.

Key Features

This tool offers a range of features to simplify your resistor calculations:

- Easy-to-Use Interface:** Select color bands and instantly view the resistance value.
- Accurate Calculations:** Ensures precise resistance values with corresponding tolerance.
- Color Codes Guide:** Learn and understand color codes for better electronics handling.
- Compact and Convenient:** Access the tool anywhere, whether on your desktop or mobile device.

Benefits of Using Our Calculator

The 4 Band Resistor Color Code Calculator is designed for efficiency and reliability:

- Time-Saving:** Quickly decode resistor values without needing a manual chart.
- Accurate Readings:** Eliminate errors with precise calculations for reliable electronics work.
- Educational Tool:** Great for students and professionals looking to understand resistor color codes.

How to Use the Calculator

Follow these simple steps to use the 4 Band Resistor Color Code Calculator:

Step 1: Select the First Color Band

Choose the color of the first band, which represents the first significant digit of the resistance value.

Step 2: Select the Second Color Band

Pick the color for the second band, which represents the second significant digit of the resistance value.

Step 3: Select the Multiplier Band

Choose the color for the multiplier band, which determines the factor by which the significant digits are multiplied.

Step 4: Select the Tolerance Band

Select the tolerance band color to see the accuracy range of the resistor.

Additional Resources

Enhance your understanding of resistor color codes with these resources:

- [Understanding Resistor Color Codes](#) - Learn the fundamentals of resistor color coding.
- [Resistor Value Formula](#) - Details on how resistance values are calculated.
- [Electronics Tips](#) - Useful tips for working with resistors and other components.

Try It Now!

Ready to calculate resistor values effortlessly? Use our Online 4 Band Resistor Color Code Calculator today and get instant results!

Frequently Asked Questions

What is a 4 Band Resistor Color Code Calculator?

A 4 Band Resistor Color Code Calculator is a tool that helps you identify the resistance value of a resistor based on its color bands. By inputting the colors, it quickly calculates the resistance value in ohms, including tolerance, to ensure accurate measurements for your circuits.

How do I use the 4 Band Resistor Color Code Calculator?

To use the calculator, select the colors of each band from the dropdown options or color palette. The calculator will instantly display the resistor's value, tolerance, and, if applicable, temperature coefficient.

What do the four color bands represent?

The four color bands on a resistor represent specific values: the first two bands denote the significant digits, the third band is the multiplier, and the fourth band indicates the tolerance of the resistor.

Can I use this calculator for different resistor types?

This calculator is specifically designed for 4-band resistors. However, similar calculators are available for 5-band and 6-band resistors, which use additional color bands for greater precision.

Why is tolerance important in resistor calculations?

Tolerance indicates the range within which the actual resistance value may vary. Knowing the tolerance helps in designing circuits where precise resistance values are required, ensuring that the resistor performs as expected.

How accurate are the results from this calculator?

The calculator is highly accurate based on standard resistor color codes. However, actual resistor values may vary slightly due to manufacturing tolerances, so always verify critical resistors with a multimeter when precision is essential.

Can I use this tool offline?

This tool is designed for online use and does not store data. For offline use, consider downloading a resistor color code chart or using an electronic calculator app that supports offline functionality.

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