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Resistor color code chart 6 band

10k resistor color code is as shown in the image it is brown/black/orange/gold. colour code of resistors does not depend on the power rating of resistor, the power rating of the resistor depends on its physical size and comes under standard wattage rating of 1/4 W,1/2W,1W,10W. etc.Representational Image Of 10k ohm resistor color code.[Brown, black, orange, gold]BandColorValue (see table)1st brown12nd black103rd orange10004th gold±5%1×10×1000=10k±5%QScroll down below to learn about the color code of all resistors and code chart.Real Image Of 10k ohm resistor color code:Real value Of 10k ohm Resistor Color Code (with tolerance):The multimeter reads slightly more or less the value of the actual 10k resistor color code. This is because the 10k resistor color code last band tolerance value reads as a gold band which is 5%.Also check, 10k smd resistor1k ohm resistor color codeIf you want to determine the value of any resistor then below are the steps to do it the easy way (color code of resistors):Resistors are made from a mixture of carbon black or powdered graphite clay and resin binder the mixture is molded into the rods by compression or heating and then wire leads are fixed at the ends. Such registers are called carbon composition resistors.The other types of resistors are carbon film resistors, metal film resistors, and wire-wound resistors. The colour code of the resistor indicates the value of resistance and its percentage reliability for tolerance.The resistor has four colored bands or rings printed on the outer casing as shown in the figure:But nowadays register also has five colour band on its outer casing. The reason for this is the value of the register for high-end usage in modern industries and manufacturing.The coloured bands are read from left to right from the lead that has band close to it. The 1st and 2nd band represent (and 3rd in case of 5 band resistor) significant digits respectively. The 3rd band in the case of 4 band resistor band represents the multiplier (and 4th band in case of 5 band resistor represents the multiplier). If the 4th band is absent the tolerance will be 20%.(in case of 5 band resistor take it as 5th band)Tolerance can be +- , 2 % , 5 % , 10 % , 20 % .The significance of the resistor colour is as shown in the table:Examples for 4 band color code:1) If the bands on the body of the resistor are red, red, orange and gold, then the register value is 22 ×10³ and its tolerance is 5% that is 22 kΩ +- 5%2) If the band on the body of the resistor is brown, black, Brown and silver then the register value is 10³×10³ Ω and its tolerance is +- 10% that is 1000Ω +- 10%. This shows the value of resistance lies between 900Ω and 110 Ω.3) The register of value 47×10⁶ Ω+- 20% will have the colour code yellow, violet, blue and 4th band will be absent.Examples for 5 band color code:1) If the bands on the body of the resistor are red, red, black, orange and gold then the register value is 220 ×10³ and its tolerance is 5% that is 220 kΩ+- 5%2)The register of value 470³×10⁶ Ω+- 20% will have the colour code yellow, violet, black, blue and 5th band will be absent.Question for practice:Q.The color band on the resistor is in the order grey, black, black then find its resistance and tolerance? Ans. The answer is 81 + - 20%ohm. Same like the resistor color codes, there are special indications like bands, dots or points are printed on different types of capacitors which are used to show the value of capacitance of a capacitor, its voltage rating and tolerance etc. The use of different colors on a capacitor to show its values and characteristics is known as capacitor color coding. Related Posts: Click on image to enlarge Capacitor Standard Codes Generally, the values of capacitance, voltage rating, tolerance and even the polarity (in case of polarized capacitor) are printed on the large size capacitor. On the other hand, for small capacitors like mica and ceramic capacitors, color codes are used to indicate their values (generally) in pF (picofarad). The value of ceramic disk capacitors lower than 1000pf is printed on it in the form of digits and numbers. For example, the only number "300" is printed on a capacitor of 300pf. Those capacitors having capacitance of 1000pf or more, their values can be read by the 3 digits numbers (e.g. 102, 103, 105 etc.) printed on it. These 3 digits color coding can be read as follows. 102 = 10 x 102 = 1000 pF (picofarad) 103 = 10 x 103 = 10,000 pF (picofarad) 105 = 10 x 105 = 1,000,000 pF (picofarad) = 1 μF (microfarad) Reading Value of Large Cylindrical Capacitors (Polarized & Non-Polarized) Generally, the overall rating is written and printed on these capacitors. For example The fig 2 (a) The value of capacitance is 47 μF (microfarad). The value of maximum voltage this capacitor bears is 400V DC The fig 2 (c) The value of capacitance is 1200 nF (nanofarad). The value of maximum bearable voltage is 500V. The value of tolerance is ± 5%, e.g. variation of capacitance in plus minus. The fig 2 (c) The value of capacitance is 1200 μF (microfarad). The value of maximum voltage is 63 V DC. The value of tolerance is ± 20%. The value of temperature coefficient is -40 to +105°C. The fig 2 (d) We will show a solved example and table (see fig 3) below to show how to read the value of ceramic capacitors The value of capacitance is 0.01 μF (microfarad). The value of maximum voltage is "2G" (400V). The value of tolerance is "J" ± 5%. Click on image to enlarge Keep in mind that polarized and non-polarized capacitors as well as AC and DC capacitors can only be used according to the specifications. For example, A DC capacitor can't be operated at AC supply and vice versa until and unless mentioned in the user Manual. The VDC and VAC are mentioned on the capacitor rating nameplate with negative (-) sign for negative terminal on it. The following symbols and units are used to represent the values of capacitance of capacitors in Microfarad (μF), Nano-farad (nF) & Picofarad (pF). Symbol Abbreviation Value in Numbers μF Microfarad 10-6 nF Nano-farad 10-9 pF Picofarad 10-12 Related Posts: Reading Value of Small Capacitors (Ceramic) For small capacitors like ceramic, tantalum, film capacitors etc., the area is very small hence it is not possible to print the value of capacitance and voltage on it. This way, some special notations are used e.g. digits, numbers and alphanumeric characters which indicates the different characteristics and values of capacitors. Generally, the values of these capacitors are in pF (picofarad 1 x 10-9). Let me show how to read the value of ceramic capacitors? 2 Numerical Values: If the ceramic capacitor has two numerical values, or any two digits and a letter like 33P, it means the value is 33 picofarad. If there is a letter in the middle of two digits like 6R2, it shows: For example: 6R2 = 6.2 pF. If the first or middle letter is "μ", "p" or "n" instead of R, it represents the main units of capacitance such as For examples: 5μ = 5 Microfarad 3p1 = 3.1 Microfarad P42 = 42 picofarad 3 Numerical Values: Most of the ceramic capacitors have three numerical values printed on it. For example, 103, 104, 105 etc. Let's see how to read these values. Suppose the printed value on the ceramic capacitor is "103" 103 = 10 x 103 = 10,000 pF (picofarad) Similarly, if the special marking code on the ceramic capacitor is 105: 105 = 10 + 5 Zeros = 1,000,000 pF = 1000 nF = 1 μF Tolerance of Ceramic Capacitors There are Capital letters printed on the ceramic capacitor except the value of capacitance such as 22M. The following table shows the tolerance for ceramic capacitors indicated by Letters. Letters Tolerance in % A ±0.05 pF B ±0.1 pF C ±0.25 pF D ±0.5 pF E ±0.5% F ±1% G ±2% H ±3% J ±5% K ±10% L ±15% M ±20% N ±30% P -0%, + 100% S -20%, + 50% W -0%, + 200% X -20%, + 40% Z -20%, + 80% Related Posts: The following table shows the standard value of standard capacitor codes and letters markings printed on it. Code Microfarad "μF" Nanofarad "nF" Picofarad "pF" Code Microfarad "μF" Nanofarad "nF" Picofarad "pF" 100 0.00001 0.01 10 225 2.2 2200 2200000 101 0.0001 0.1 100 254 0.2 200 200000 102 0.001 1.0 1000 330 0.00033 0.033 33 103 0.01 10 10000 331 0.00033 0.33 330 104 0.1 100 100000 332 0.0033 3.3 3300 105 1.0 1000 1000000 333 0.033 33 33000 121 0.00012 0.12 120 334 0.33 330 330000 131 0.00013 0.13 130 335 3.3 3300 3300000 150 0.000015 0.015 15 470 0.000047 0.047 47 151 0.00015 0.15 150 471 0.00047 0.47 470 152 0.0015 1.5 1500 472 0.0047 4.7 4700 153 0.015 15 15000 473 0.047 47 47000 154 0.15 150 150000 474 0.47 470 470000 155 1.5 1500 1500000 502 0.005 5.0 5000 181 0.00018 0.18 180 561 0.00056 0.56 560 202 0.002 2.0 2000 562 0.0056 5.6 5600 205 2.0 2000 2000000 681 0.00068 0.68 680 220 0.00022 0.22 22 682 0.0068 6.8 6800 221 0.00022 0.22 220 683 0.068 68 68000 222 0.0022 2.2 2200 684 0.68 680 680000 223 0.022 22 22000 751 0.00075 0.75 750 224 0.22 220 220000 821 0.00082 0.82 820 Capacitor Color Codes How to Read Capacitor Color Codes? Except marking and alphanumeric codes, different color codes are also used to identify the value of a capacitor. These colored bands (on ceramic tubular capacitors) or dots (on Mica capacitors) are printed on the outer surface of the capacitor. Click on image to enlarge Capacitance of Capacitor Color Code The value of a capacitor having five color bands (or 5 dots) can be read using the following table. In the following tables, the first three color bands show the value of capacitance, the fourth band as tolerance in percentage and the fifth band shows the temperature coefficient. For example: 1st Color Band = First Number of Value of Capacitor. 2nd Color Band = Second Number of Value of Capacitor. 3rd Color Band = The number of Zeros (as multiplier) with the first two digits of capacitor (In numbers). 4th Color Band = Tolerance in percentage. 5th Color Band = Temperature coefficient. Related Posts: Parallel Capacitors Calculator Series Capacitor Calculator Table for 5 bands color codes for ceramic capacitors Band Color 1st Digit 2nd Digit Multiplier Tolerance (%) Temperature Coefficient Above 10pf Below 10pf BLACK 0 0 1 ± 20% ± 2.0pF 0 BROWN 1 1 10 ± 1% ± 0.1pF -30 RED 2 2 100 ± 2% ± 0.25pF -80 ORANGE 3 3 1,000 ± 3% -150 YELLOW 4 4 10,000 ± 4% -220 GREEN 5 5 100,000 ± 5% ± 0.5pF -330 BLUE 6 6 1,000,000 ± 6% -470 VIOLET 7 7 - ± 7% -750 GREY 8 8 0.01 +80%,-20% ± 0.25pF +30 WHITE 9 9 0.1 ± 10% ± 1.0pF +120-750 GOLD - - 0.1 ± 5% - - SILVER - - 0.01 ± 10% - - Table for 4 bands color codes for ceramic & tubular paper capacitors with voltage rating (especially for dot color code for mica and molded paper capacitors). Band Color Significant Figure Decimal Multiplier Tolerances (%) Voltage Rating BLACK 0 1 - - BROWN 1 10 1 100 RED 2 100 2 200 ORANGE 3 1,000 3* 300 YELLOW 4 10,000 4* 400 GREEN 5 100,000 5 500 BLUE 6 1,000,000 6 600 VIOLET 7 10,000,000 7 700 GREY 8 100,000,000 8 800 WHITE 9 1,000,000,000 9 900 GOLD - 0.1 5 1000 SILVER - 0.01 10 2000 No Color - - 20 500 * Voltage Rating for K type Capacitors ** Multiply by 10 for tubular paper capacitors. Voltage of Capacitor Color Code Band Color Type "J" Type "K" Type "L" Type "M" Type "N" BLACK 4 100 - 10 10 BROWN 6 200 100 1.6 - RED 10 300 250 4 35 ORANGE 15 400 - 40 - YELLOW 20 500 400 6.3 6 GREEN 25 600 16 15 BLUE 35 700 630 - 20 VIOLET 50 800 - - GREY - 900 - 25 25 WHITE 3 1000 - 2.5 3 GOLD - 2000 - - SILVER - - - - Note: The letters of "J", "K", "L", "M" & "N" shows the following types of capacitors Type "J" = Dipped Tantalum Capacitors Type "K" = Mica Capacitors Type "L" = Polyester & Polystyrene Capacitors Type "M" = Electrolytic Four-Bands Capacitors Type "N" = Electrolytic Three-Bands Capacitors Related Posts Formula and Equations For Capacitor and Capacitance Capacitor Symbols The following fig shows how to read the humblesbee capacitor color codes with a solved example of 0.047μF (equivalent to 47000 pF or 47 nF). How to Read Color Codes for Disc & Ceramic Capacitors? Color codes for non-polarized mica molded and polyester capacitors like ceramic and disc capacitors are an old school method (BS-EN 60062) and hence replaced by the capacitor marking (BS-1852 Standard) with alphanumeric codes. If you still find the old age color coded capacitor, you may identify the value of the ceramic capacitor using the following example (see fig 3(c) and 3(d)). Capacitor Color Codes Calculator The following 5-bands capacitor calculator will calculate the value of capacitance of five colored strips printed on a capacitor. This calculator supports 5-colored strips and values of capacitance in F (Farad), μF (micro-Farad), nF (nano-farad) and pF (pico-farad). Just select the color codes of the capacitor and click on calculate for the desired value of capacitance. Its tolerance and maximum voltage of the (Type K) capacitor. Capacitor Code to Capacitance Value of Capacitor Calculator The following capacitor value calculator calculates the values of capacitance for ceramic capacitors. Just put the capacitor code marking such as "103" and click on calculate. The result will show the value of capacitance of ceramic capacitor in μF (microfarad = 1×10-6), nF (nano-farad = 1×10-9) or pF (picofarad = 1×10-12). Capacitance Value to Capacitor Code Calculator The following capacitor code calculator calculates the code of capacitance for ceramic capacitors. Just put the value of capacitance of ceramic capacitor in μF (microfarad = 1×10-6), nF (nano-farad = 1×10-9) or pF (picofarad = 1×10-12) and click on calculate. The result will show the code of capacitance of ceramic capacitors such as "103", "104", "105" and so on depending on the input value. Related Posts: Capacitor Standard & Color Code Charts The above tables are given below in images & charts for reference. (Click images to enlarge) Value of Standard Capacitor Codes Table for 5 bands color codes for ceramic capacitors Capacitance of Capacitor Color Code Voltage of Capacitor Color Code Tolerance of Ceramic Capacitors values of capacitance of capacitors in Microfarad (μF), Nano-farad (nF) & Picofarad (pF) Related Posts:

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