

Capacitor classification and code table

What are capacitor codes?

These capacitor codes are standardised by EIA, but also some other generally used industry codes may also be seen in common use. These codes are typically used for ceramic and other film type capacitors. The temperature coefficient is quoted in terms of parts per million per degree C; PPM/°C.

How do you mark a capacitor?

It is often necessary to mark a capacitor with a marking or code that indicates the temperature coefficient of the capacitor. These capacitor codes are standardised by EIA, but also some other generally used industry codes may also be seen in common use. These codes are typically used for ceramic and other film type capacitors.

How many numbers does a capacitor have?

Commonly the capacitor will have one or two numbers printed on it. Here are explanations of the most common cases: The capacitance is this number of picoFarads (pF). If we call the digits ABC, the capacitance is given by the formula $(AB * 10^C)$ pF. For example, a capacitor that reads 224 is $22 * 10^4$ pF = 220,000 pF = 220 nF = 0.22 uF.

What are the different types of ceramic capacitors?

Here is a chart on the different classes and definitions: Class III (or written class 3) ceramic capacitors offer higher volumetric efficiency than EIA class II and typical change of capacitance by -22% to +56% over a lower temperature range of 10 °C to 55 °C. They can be substituted with EIA class 2- Y5U/Y5V or Z5U/Z5V capacitors

What is a capacitor marking code?

This capacitor marking code uses three characters. It bears many similarities to the numeric code system adopted for some surface mount resistors. The first two figures refer to the significant figures of the capacitor value, and the third one acts as a multiplier.

What is a colour code on a capacitor?

Colour code: Some older capacitors use a form of colour code. This type of capacitor marking is used less these days but may be seen on some older capacitors. Tolerance codes: Some capacitors have a tolerance code. The code used is actually the same as that used with resistors as it utilises the EIA scheme:

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Capacitors for AC applications are primarily film capacitors, metallized paper capacitors, ceramic capacitors and bipolar electrolytic capacitors. The rated AC load for an AC capacitor is the maximum sinusoidal effective

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AC current (rms) ...

Classification of Capacitors. The types of capacitors that are available start with a small, delicate management capacitor that may be used with radio circuits or oscillators. In ...

The three-character code with the letter-number-letter format is used for capacitors with Class 2 and Class 3 dielectrics. COG is a Class 1 dielectric, so it's not included ...

Notes to the table above. Capacitance rating or ability to store an electrical charge, given in Microfarads = 10^{-6} Farads or 10^{-6} F written as μ F or uF or as MF, or occasionally as mF Watch out: mF usually is used to indicate ...

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This article digs into the diverse types of capacitor markings--ranging from numerical and color codes to more complex coding systems standardized by the Electronic Industry Alliance ...

Class III (or written class 3) ceramic capacitors offer higher volumetric efficiency than EIA class II and typical change of capacitance by -22% to +56% over a lower temperature range of $10 \pm 176^{\circ}\text{C}$ to $55 \pm 176^{\circ}\text{C}$. They can be ...

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This brief table gives the basic rules for reading and translating the capacitance value-number-codes found on many small capacitors where the printable surface area demands readable ...

Capacitor Color Codes. While most modern capacitors use numerical markings, older models often display color codes. These codes indicate values like capacitance and breakdown ...

Tolerances of capacitors and their letter codes E series Tolerance C R \geq 10 pF Letter code C R \leq 10 pF Letter code E 96: 1%: F: 0.1 pF: B ... Ceramic Class 1 capacitors are especially suitable for LC resonant circuits with frequencies up ...

SMD capacitor 10th code means the capacitor's size. The 10th code stands for the capacitor's package size. For example, 3 in the ceramic capacitor SMD code series ECA ...

The most common capacitor code uses a first digit, second digit, and multiplier scheme: Example 223J = 22×10^3 pF = 22 nF = .022 μ F 5% Tolerance 151K = 150 pF = .15 nF = .00015 μ F ...

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Code pF nF µF Code pF nF µF Code pF nF µF 100 10 0.01 0.00001 220 22 0.022 0.000022
470 47 0.047 0.000047 101 100 0.1 0.0001 221 220 0.22 0.00022 471 470 0.47 0.00047 102 1000 ...

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