

3 Capacitor Types

3.1 Overview of existing capacitor types

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As mentioned already, there is a wide range of different capacitors. The capacitors briefly introduced in Chapter 1.8, which play the most important role in industry are presented in detail in the following chapters and in addition other existing designs are shown.

The following chapters serve to provide an essential understanding of the existing capacitor designs and to introduce and describe their basic features. Each of the capacitor types could be dedicated its own reference book.

3.1 Overview of existing capacitor types

The capacitor types can be broadly divided into those with fixed capacitance and those with variable capacitance. The most important are the fixed capacitance capacitors, but capacitors with variable capacitance also exist. These include rotary or trimmer capacitors.

Capacitors with fixed capacitance can be divided into film, electrolytic, ceramic and super conductors. The film, electrolytic and ceramic capacitors are described in more detail in the following chapters and are the capacitors most commonly found in electronics.

Capacitor types

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3.1 Overview of existing capacitor types

All existing capacitor types and their classification are presented in the following overview:

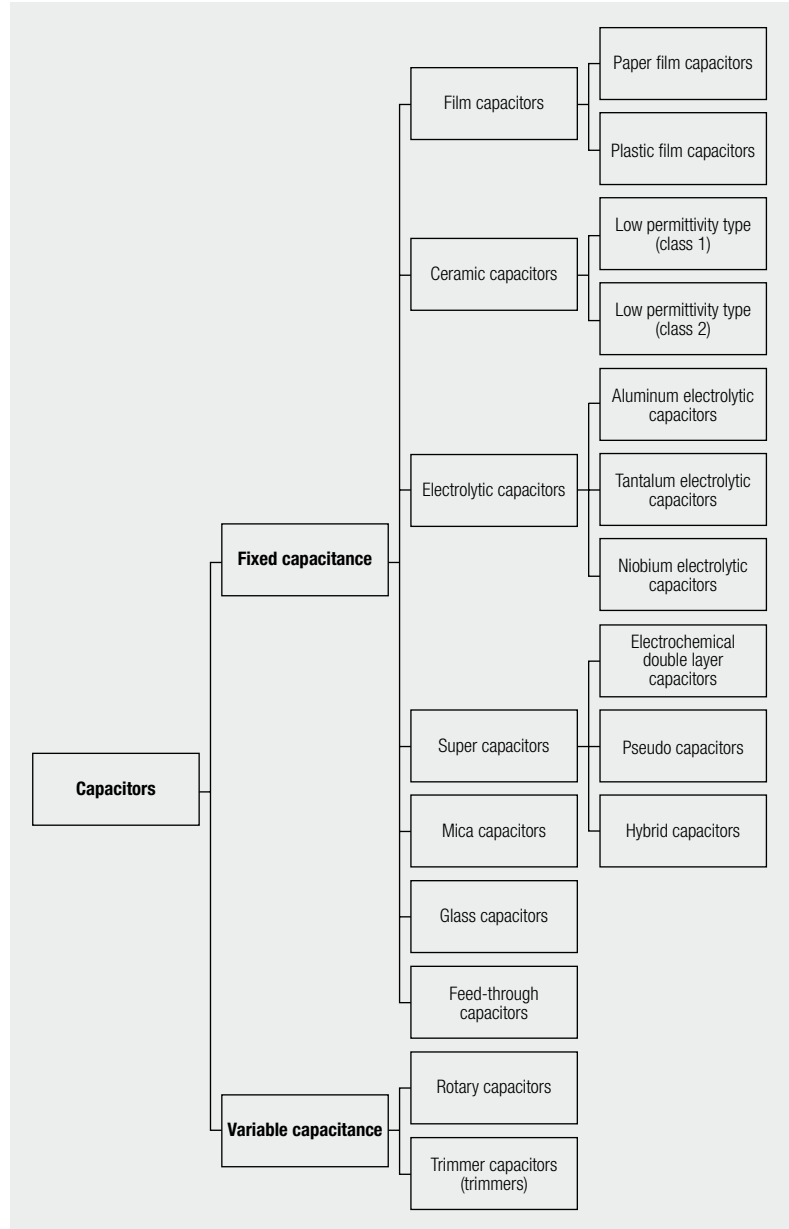


Fig. 3.1: Overview of existing capacitor types