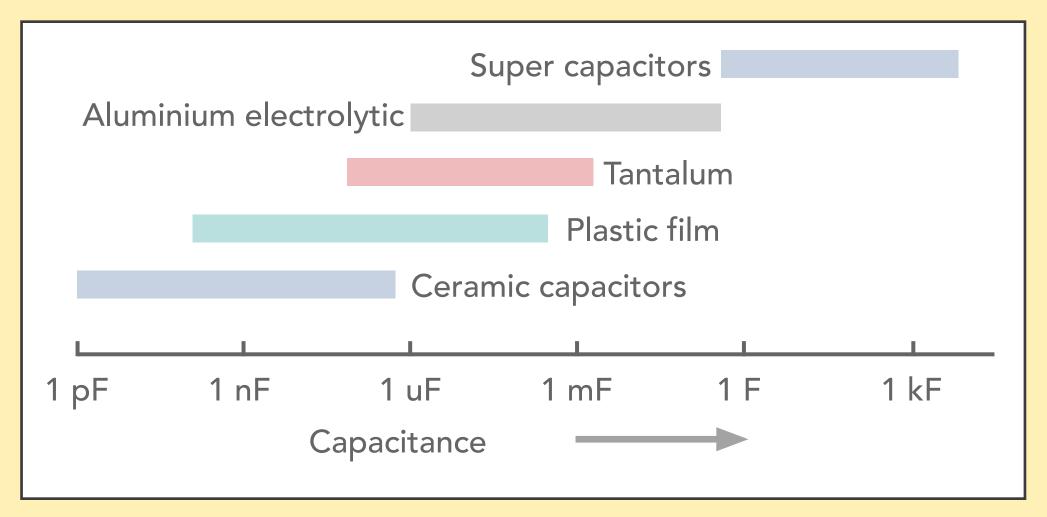
## Capacitor Types

Details of some of the more commonly used types of capacitor with a chart of the typical value ranges available.

Type	Typical images	Salient details
Ceramic	AS LESU	Ceramic capacitors are the most widely used. The dielectric is ceramic and different varieties of ceramic provide different properties. These are given differnet designations, e.g. X7R, Y5V, etc
Plastic film	A REPORT OF THE PARTY OF THE PA	These capacitors can use one of a variety of different films, some being metallised. Dependent upon the film they offer high levels of stability. They are not normally available in SMT formats
Tantalum	19 <b>4</b> 22 <b>4</b> 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Tantalum capacitors are small high value polarised capacitors use for coupling etc. They cannot withstand high currents or reverse polarity and can explode if mistreated.
Aluminium electolytic	Par	Aluminium electrolytic capacitors are used for high value capacitance levels. They are polarised and have top operating frequencies around 100kHz, but can often supply high current levels.
Super capacitors	Du St.	Super capacitors have values in the Farad region - much greater than any other type. They are often used instead of hold-up batteries which can have a shorter working life.



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