C = Q/V

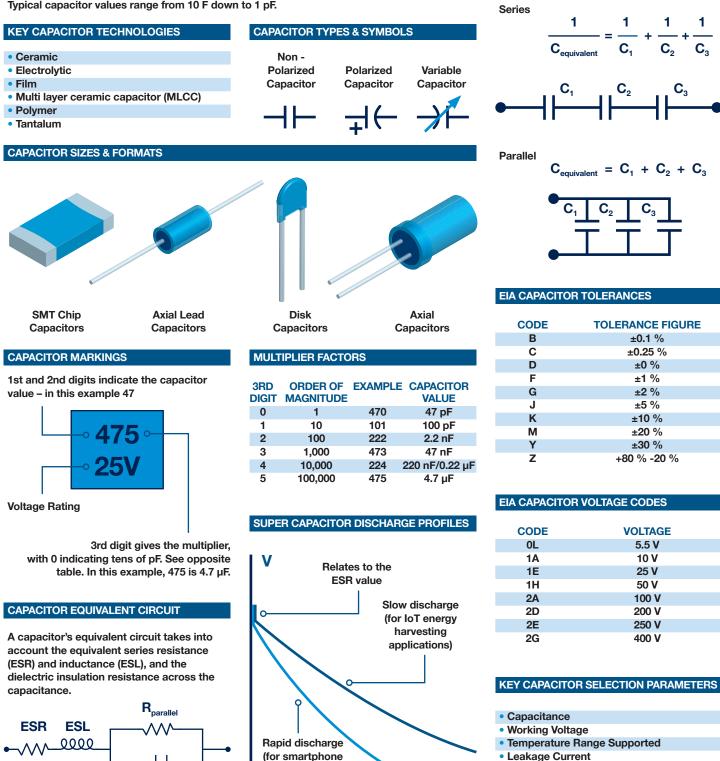
Where Q is Charge and V is Voltage

$C = \varepsilon_0 \times \varepsilon_r (A/d)$

Where $\pmb{\epsilon}_{\scriptscriptstyle 0}$ is the permittivity of a vacuum E, is the permittivity of the dielectric A is the total area of the plates and d is the distance between them

Energy Stored = 1/2 (CxV²)

The unit of capacitance is the Farad, symbol F. Typical capacitor values range from 10 F down to 1 pF.



Α

d

- Equivalent Series Resistance (ESR)
- Tolerance Level
- Moisture Sensitivity



С

MOUSER CAPACITOR REFERENCE SHEET

GLOBALCAPACITOR MARKET

CAPACITOR CALCULATIONS

Current annual worth of \$20 billion in total (according to figures compiled by Lucintel)

It is estimated that nearly 5 trillion units were shipped in 2019 (according to Research & Markets)

