

Meeting the most important demands — yours.

**Our Enhanced Safety Certified Surface Mount MLCC
product line is tested to meet international safety standards:**

IEC/EN 60384-14:2013 + A1:2016 class Y2/X1 and
UL/CAN/CSA60384-14:2014. Range qualified to AEC-Q200.

Knowles Safety Certified capacitors comply with international UL and IEC/EN specifications, with certification by UL, cUL and TUV, and offer the benefits of a lower profile and less board space. They are available in case sizes 1808, 1812, 2211, 2215 and 2220, and all are available with the option of FlexiCap™ termination to reduce the risk of mechanical cracking. All parts have a CTI ≥ 600, allowing us to offer the SYS range with an even smaller platform suitable for use in equipment within the scope of IEC 62368.

Whether it's AEC-Q200 standards, modems, AC-DC power supplies or applications where lightning strike or other voltage transients represent a threat to electronic equipment, our Safety Certified capacitors allow us to meet a variety of demands. Talk to us today to find out how we can meet yours.

SYX/UYX FAMILY — Y2 (250VAC)/X1 (305VAC) 5KV IMPULSE



Applications

- High voltage battery systems within electric vehicles
- Three-phase systems requiring 305Vac line to line
- Industrial and domestic equipment where safety is critical
- Plug-in power supplies

Benefits

- Class Y2/X1 safety capacitors, including Humidity Robustness Grade III
- Guaranteed 4mm creepage, mandatory for 250Vac Class Y2 and 305Vac Class X1 full certification
- Humidity Robustness Grade III as per EN 60384-14 fully certified
- 5kV impulse
- 1kVDC qualified
- Components are 100% DWV tested to 4kV
- AQL tested to 4kVDC and 3000Vac 60s — ideal for high voltage battery systems
- Unmarked (UYX) components available with additional 2500VDC rating
- Case sizes: 1808, 1812, 2211, 2215 and 2220

SYS FAMILY – Y2 (250VAC)/X1 (305VAC) 5KV IMPULSE



Applications

- Applications within the scope of IEC 62368. Ref: EN 60384-14, clause 4.8.1.3
- Ideal for use within ICT and AV equipment

Benefits

- SYS family offers class X1/Y2 safety capacitors, including Humidity Robustness Grade III
- 1kVDC certified
- Unmarked components can be offered with an additional 2500VDC rating with suffix UYS
- Components are 100% DWV tested at 3000VDC
- CTI ≥ 600
- AQL tested to 3225VDC and 2110Vac 60s
- Reduced size compared to SYX
- Case sizes: 1808 and 1812

S3X FAMILY – X2 (305VAC) 2500V IMPULSE



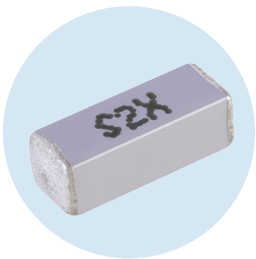
Applications

- Industrial Switchgear and control systems
- 3-phase systems requiring higher voltage ratings
- Domestic circuit breakers

Benefits

- S3X family offers class 305Vac X2 safety capacitors
- 2.5kV impulse and a 1kVDC rating
- Unmarked components can be offered with an additional 1500VDC rating with suffix U3X
- 56nF with a 2500V impulse
- 1kVDC qualified
- Components are 100% DWV tested at 3000VDC
- CTI ≥ 600
- AQL tested to 3225VDC and 1500Vac 60s
- Case size: 2220

S2X FAMILY – X2 (250VAC) 2500V IMPULSE



Applications

- Industrial Switchgear and control systems
- Domestic circuit breakers

Benefits

- S2X family offers class 250Vac X2 safety capacitors, including Humidity Robustness Grade III
- 2.5kV impulse and a 1kVDC rating
- 1kVDC qualified
- Components are 100% DWV tested at 3000VDC
- CTI ≥ 600
- AQL tested to 3225VDC and 1500Vac 60s
- Case size: 1808