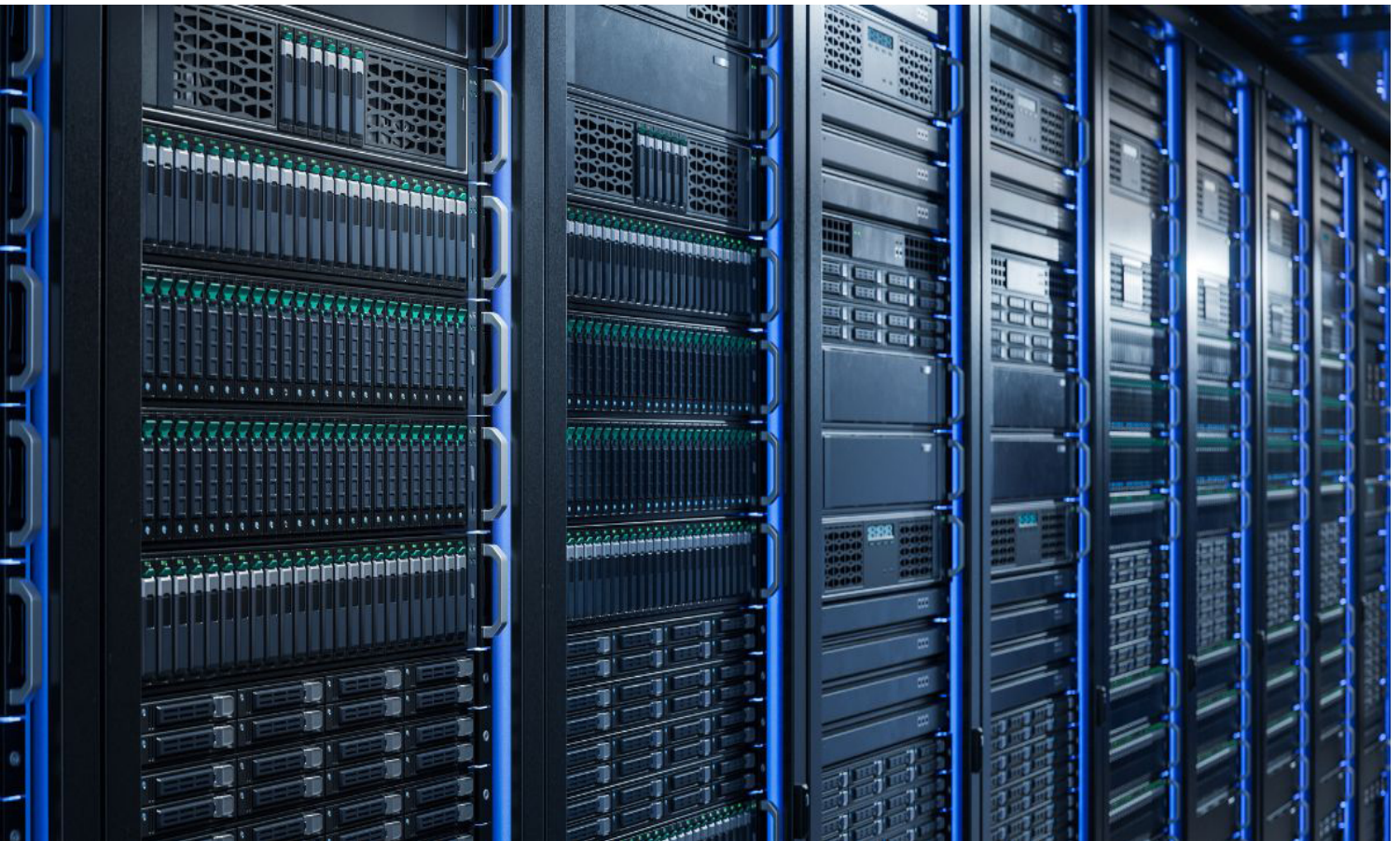


INTRODUCING A NEW LINE OF HIGH-PERFORMANCE, SAFETY-CERTIFIED CAPACITORS



Many applications today increasingly demand miniaturized surface-mount components that can perform reliably at ever-increasing working and testing voltages. As a result, Knowles recently released a new range of X1/Y2 safety-certified surface-mount multilayer ceramic capacitors (MLCCs).

With a voltage rating between $310V_{rms}$ and $500V_{rms}$, including the first class Y2 MLCC on the market featuring a voltage rating as high as $500V_{rms}$ (Table 1), these new MLCCs are ideal for ensuring safe operation of the high-power AC/DC converters required for a variety of industrial and automotive applications.

Y2/X1	2720	
	Min	Max
310/310	5.6nF	12nF
440/440	3.9nF	4.7nF
500/500	1nF	3.3nF

Table 1. The voltage ratings for our new range of safety-certified MLCCs.

Key features of our new range of safety-certified MLCCs include the following:

- **High working voltage:** Voltage rating and maximum capacitance value of 12nF in 310Vac class Y2
- **Critical safety features in a compact case:** An innovative design that offers a creepage distance of up to 5 mm minimum packed into a 2720 case size, reducing required board space
- **Higher DC-rated voltage:** 1,500V in compliance with EN60384-14 Annex H
- **Tested for operation in harsh environments:** Rated to humidity grade IIIB (85°C/85%RH,1000hr)
- **Wide operating range:** -55C to 125C

All our safety-certified MLCCs are available AEC-Q200 qualified and with a flexible termination option using FlexiCap™, our proprietary fletabxible epoxy polymer termination material.

KNOWLES

With our newly expanded portfolio of enhanced safety-certified MLCCs, electrical engineers designing the high-voltage power electronics required for applications ranging from electric vehicle onboard chargers to datacenter servers can reliably mitigate the effects of transient voltages and electromagnetic interference, ensuring safe operation.

Learn more about our [latest safety-certified capacitors](#) or buy now through [DigiKey](#). Or, learn more about safety capacitors in general by downloading [The Electrical Engineer's Guide to Safety Capacitors](#) ebook.

[Learn More](#)

If you need help selecting from our portfolio please [contact us](#) and we can guide you through the selection process.



2777 Hwy 20
Cazenovia, NY 13035



(315) 655-8710



[Contact Knowles](#)