Product Brief | New-to-Market

CAPACITORS

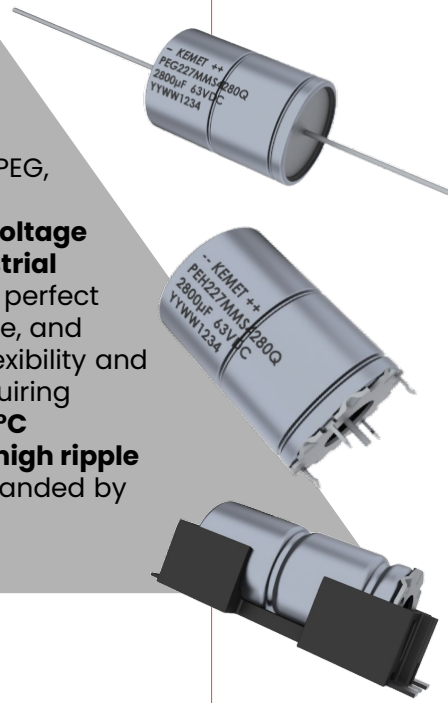
Aluminum Electrolytic

Axial 80V Capacitors

YAGEO GROUP
Built into Tomorrow

PRODUCT OVERVIEW

YAGEO Group's Axial 80V expansion of PEx227 and PEx228 series (PES, PEV, PEB, PEG, and PEH families) are designed to meet increasing market demand for **higher voltage solutions in 48V automotive** and **industrial** systems. This 80V addition provides the perfect balance between voltage capability, size, and performance, offering greater design flexibility and improved reliability for applications requiring enhanced electrical stability **up to +150°C** delivering proven **AEC-Q200** reliability, **high ripple current**, and **low ESR** performance demanded by modern power electronics.



Quick Facts

Voltage: 25 – 80 VDC NEW

Capacitance Range: 380 – 10,500µF

Construction: Axial Aluminum Electrolytic

Certifications: AEC-Q200

Contact & Information

For special requests (custom designs, lifetime extensions, etc.), contact regional Product Managers.

Key Selling Points

Features	Customer Value
80V Rated Voltage for 48V Systems	Specifically designed to meet the growing voltage requirements in modern automotive and industrial platforms.
High Ripple Current Capability	Ensures performance and stability in high-demand power circuits.
Low ESR and High Capacitance	Delivers efficient energy storage with minimal losses.
Operation up to +150°C	Supports next-generation designs with extended thermal performance.
Multiple Form Factors (Axial, Radial, SMD)	Offers design flexibility across a wide range of applications.

Target Applications

- **DC-Link, smoothing, and decoupling circuits**
- **Power conversion and SMPS**
- **Automotive 48V systems such as cooling fans, pumps, and steering units**
- **Industrial motor control and automation equipment**
- **Power distribution, inverter, and energy storage systems**
- **Server, computing, and data center power management**
- **Telecommunications and networking infrastructure**

Market Advantages

- Enables faster design adoption in evolving 48V architectures for automotive and industrial power electronics.
- Delivers higher voltage capability in a compact form factor, allowing designers to achieve greater power density and reliability without increasing board space or compromising thermal performance.
- Supports the global shift toward electrification, data-driven systems, and energy-efficient designs.
- Ideal for long-term platform standardization, offering consistent performance across Axial, Radial, and SMD configurations for multi-platform designs.
- Globally available across key regions and distributors, simplifying sourcing and design integration.