

New 202 PML-ST Series Screw-Terminal Aluminum Capacitors Provide High Capacitance / Voltage Combinations in Smaller Case Sizes, Offer High Ripple Currents Up to 49.6 A, Low ESR Down to 2 mΩ, and Long Useful Life to 10 000 h

Product Benefits:

- Available in 11 case sizes ranging from 35 mm by 60 mm to 90 mm by 220 mm
- Provide high CV combinations from 56 000 μF at 200 V to 15 000 μF at 450 V
- High ripple current to 49.6 A
- Low ESR down to 2 mΩ
- Long useful life of 10 000 h at +85 °C
- Feature a cylindrical aluminum case insulated with a blue sleeve and pressure relief in their sealing disc
- RoHS-compliant



Market Applications:

- Filtering, buffering, and energy storage in pulsed power applications with a required lifetime of 10 to 15 years
- Typical end products include industrial motor drives; rail traction for trains and subways; welding equipment, HVAC, and UPS; wind turbines and solar power inverters; and medical X-ray equipment

The News:

Vishay Intertechnology introduces a new series of screw-terminal aluminum electrolytic capacitors that allow designers to pack more energy storage into less space. Available in 11 case sizes ranging from 35 mm by 60 mm to 90 mm by 220 mm, the Vishay BCcomponents 202 PML-ST series offers high capacitance / voltage (CV) values in smaller case sizes than previous-generation solutions, while providing increased ripple current to 49.6 A, lower ESR down to 2 mΩ, and a long useful life of 10 000 h at +85 °C.

- Polarized aluminum electrolytic capacitors with a non-solid electrolyte
- With the 202 PML-ST series, a CV rating of 2200 μF / 400 V — previously available in the 65 mm by 105 mm case size — is now available in the smaller 50 mm by 105 mm case size
- For CV ratings with a similar case size to previous-generation solutions, the capacitors offer improved ripple current and ESR. For example, a CV rating of 4700 μF / 400 V offers 12 % higher ripple current and 16 % lower ESR



The Key Specifications:

Series	202 PML-ST
Case size (D x L in mm)	35 x 60 to 90 x 220
Capacitance range	330 μ F to 56 000 μ F
Tolerance	\pm 20 %
Rated voltage	200 V to 450 V
Category temperature range	-40 °C to +85 °C
Useful life at +85 °C	10 000 h
Ripple current at 100 Hz and +85 °C	2.69 A to 49.6 A
Typ. ESR at 100 Hz	2 m Ω to 221 m Ω
Max. ESR at 100 Hz	4 m Ω to 332 m Ω
Max. impedance at 10 kHz	4 m Ω to 218 m Ω
Sectional specification	IEC 60384-4 / EN 130300
Climatic category IEC 60068	40 / 085 / 56

Availability:

Samples are available from catalog houses in small quantities. Production quantities of the 202 PML-ST series capacitors are available now, with lead times of 18 to 20 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?28467> (202 PML-ST)

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