Panasonic

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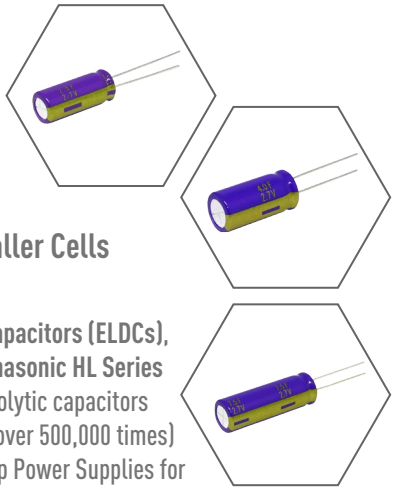
New Product Introduction

# HL Series Small Size
# Electric Double Layer Capacitors, Radial Lead Type



### Panasonic Expands HL Series Electric Double Layer Capacitors (ELDC) "Gold Capacitors" In Smaller Cells Offering Long Life And Superior Performance For Auxiliary Power Applications

Panasonic, a worldwide leader in Capacitor Products, announces the extension of its **HL Series Electric Double Layer Capacitors (ELDCs)**, which offer low resistance combined with guaranteed long life over a wide temperature range, from -40°C to +85°C. **Panasonic HL Series Gold Capacitors** are wound radial lead type devices, which achieve far better capacitance compared to aluminium electrolytic capacitors (up to 1,000 times greater) and superior backup performance. Additional benefits of rapid charge and discharge cycles, (over 500,000 times) and exceptional ageing characteristics make Panasonic **HL Series ELDC Capacitors** ideal for applications such as backup Power Supplies for servers and storage devices, solar-powered products, smart grid solutions, and driver-assist for motors and actuators in a variety of markets.

The extension of the **HL Series** adds nominal capacitance values of 2.5F, 4.5F and 7.5F to the existing 50F and 100F parts, all rated at 2.7VDC. These ELDCs maintain their capacitance and internal resistance without drifting at low temperatures, as opposed to other products available where the capacitance and internal resistance values may change by ± 30% and up to 7 times respectively from initial measured values. **New, smaller size HL Series** devices are guaranteed for a life of 2,000 hours at +70°C but can achieve 1,000 hours at 85°C with voltage derating. For power backup applications where ageing characteristics cause a rise in internal resistance and rapid decline in capacitance, EDLC Capacitors are especially beneficial. Due to the unique electrolyte used in the Panasonic parts, such ageing effects are mitigated, in effect leading to part count reduction.

The extension of the **HL Series** within a year of its original launch testifies to the need for reliable, endurable and scalable backup solutions offering significant cost and space-saving benefits. The new leakage-safe electrolyte which does not produce any Hydrogen Cyanide gives Panasonic an edge in terms of extended temperature range and responsible environmental stewardship.

AEC-Q200 Compliance for the entire HL Series from Panasonic ensures optimal quality and reliability.

## Features

- Low ESR: 30 to 70 mΩ Max. Range
- Maximum Operating Voltage: 2.7 V.DC
- Operating Temperature Range: -40oC to +70 (85)°C
- Long Life: +70°C 2000 h, 85°C 1000 h @2.5 V.DC
- Safe Operation
- AEC-Q200 Compliant
- RoHS and REACH Compliant

## Benefits

- Low ESR Allows the HL Series to Withstand a Discharge Current of as High as 2.5 to 6 Amps
- Wide Operating Temperature Range
- AEC-Q200 Compliance Ensures Strict Quality Control Standards Are Being Enforced
- New Electrolyte With High Flash Point (90oC) And No Toxicity Issues.

## Industries

- Industrial
- Automotive
- Metering

## Applications

- Backup Power Supplies For Servers and Storage Devices
- Driver-Assist For Motors and Actuators in a Variety of Markets
- Data Backup For E-Meters
- Auxiliary Power Supplies For Solar-Power Products (Billboards, Street Lighting)

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