

**NEW! EEH-ZA & EEH-ZC Series**

**Hybrid Surface Mount Aluminum Electrolytic Capacitors**  
 New Technology Combining the Excellent Benefits  
 of Both Electrolytic and Polymer Capacitors



Panasonic Electronic Components, a worldwide leader in Capacitor Products, is pleased to announce the **NEW EEH-ZA** and **EEH-ZC Series** Hybrid Surface Mount Aluminum Electrolytic Capacitors. These two **NEW Hybrid Capacitor Series** take the benefits of both electrolytic and polymer capacitor technologies and combine them, producing a capacitor with low ESR, low leakage current, high ripple current and smaller case sizes. These combined benefits save valuable board space, enhance overall board performance and lower design costs.

**Features:**

- Operating Voltage Range: 25 to 63 VDC
- Rated Capacitance Range: 10  $\mu$ F to 330 $\mu$ F
- Operating Temperature Range:
  - ZA Series -55°C to +105°C
  - ZC Series -55°C to +125°C
- Case Size: 5x5.8 to 10x10.2
- Pb-Free High Temperature Reflow
- Endurance:
  - ZA Series - Up to 5,000 Hours at 105°C
  - ZC Series - Up to 4,000 Hours at 125°C
- Failure Mode - Open Circuit
- RoHS Compliant

**Benefits:**

- Low ESR Values: 20m $\Omega$  to 120m $\Omega$
- Low Leakage Current: 0.01 CV or 3 $\mu$ A
- Longer Endurance Than Current SMD Products
- Downsizing and Weight Reduction
- Open Up Valuable Board Space

**Industries:**

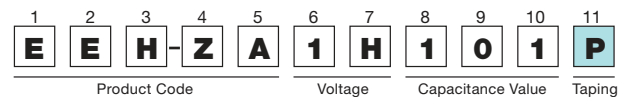
- Industrial
- Automotive
- Alternative Energy

**Applications:**

- DC/DC Converters, Good for Input Capacitor
- Switching Power Supplies
- Vehicle Control Module
- Smart Meter

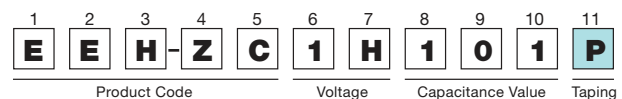
**Part Number Information:**

**ZA Series**



**Part Number Information:**

**ZC Series**



**Additional Information:**



For detailed specification information on these NEW Hybrid Aluminum Electrolytic Capacitors visit

- [panasonic.com/industrial/includes/pdf/EEH-ZA\\_DataSheet.pdf](http://panasonic.com/industrial/includes/pdf/EEH-ZA_DataSheet.pdf)
- [panasonic.com/industrial/includes/pdf/EEH-ZC\\_DataSheet.pdf](http://panasonic.com/industrial/includes/pdf/EEH-ZC_DataSheet.pdf)

**Website:** [panasonic.com/industrial/electronic-components/capacitive-products/index.aspx](http://panasonic.com/industrial/electronic-components/capacitive-products/index.aspx)