



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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:

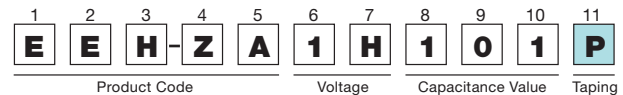
- Industrial
- Automotive
- Alternative Energy

#### Applications:

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

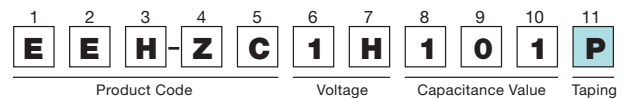
#### Part Number Information:

##### ZA Series

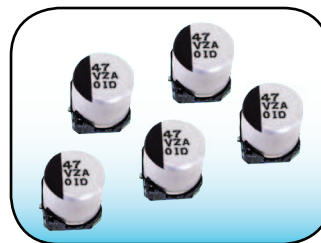


#### Part Number Information:

##### 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)