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GYA/GYB Series Hybrid Aluminum Polymer Capacitors

The GYA/ GYB series are the most recent development in electrolytic capacitor technology. This technology combines the best attributes of aluminum electrolytic and conductive polymer capacitors into a single capacitor.



Advantage #1: Cost Effective

One hybrid capacitor can replace multiple electrolytic capacitors not only saving on material costs but board space as well.

Advantage #2: Long Life

Up to 10,000 hour endurance life rating at their rated temperature and rated voltage assures long life at lower temperatures.

Advantage #3: Low ESR

The GYA/ GYB have very low ESR values. Their ESR's are the same or similar to aluminum polymer capacitors.

Advantage #4: High ripple current

The GYA/ GYB have ripple currents 3-5 times higher than aluminum electrolytic capacitors at 100 kHz.

Advantage #5: Open Circuit Failure Mode

The GYA/ GYB reliably fail as an open circuit compared to other types of capacitors.

Advantage #6: Compact Size

The GYA/ GYB is available in standard SMD electrolytic case sizes. Often in the same case size as an aluminum electrolytic and polymer capacitor of the same capacitance and voltage.

Quick Facts

- Cost Effective
- Long Life
- Low ESR
- High Ripple Current
- Open Circuit Failure Mode
- Compact Size

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Hybrid Product Offerings

Series	Type	Temp	Voltage	Capacitance
GYA	SMD	-40 to +125°C	25 to 63VDC	10 to 330µF
GYB	SMD	-40 to +105°C	25 to 63VDC	10 to 330µF

- ◊ Temperature ratings as high as 125°C
- ◊ Expected life up to 10,000 hours
- ◊ Voltages up to 63VDC

Applications

- ◊ Filter/smoothing
- ◊ Switching
- ◊ Decoupling
- ◊ Hand held devices
- ◊ Backup power supplies
- ◊ Voltage regulators



Focus Markets

- ◊ Automotive
- ◊ Pumps
- ◊ Material handling equipment
- ◊ SMPS
- ◊ DC/DC converters
- ◊ Smart meters
- ◊ LED lighting

