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Quick Facts

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

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.

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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

