

BAPB0604R5HY002 AVC 5VDC 0.50A 60mm Blower Fan Datasheet



Brand: AVC

SKU: [759168660856](#)

Category: Axial & Centrifugal Fans

Price: **\$36.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page: <https://www.equipspares.com/product/bapb0604r5hy002-avc-5vdc-0-50a-60mm-blower-fan>

Product Description

The AVC BAPB0604R5HY002 is a 5VDC 60mm Blower Fan optimized for thermal management in ultra-slim convertible computing architectures. By utilizing a high-density centrifugal impeller, this unit generates concentrated static pressure to overcome the airflow resistance inherent in tightly packed heat pipe fins. The fluid dynamic bearing system utilizes a pressurized lubricant film to eliminate mechanical contact during rotation, which prevents acoustic degradation and mechanical wear during 0.50A peak current cycles. Integrated PWM circuitry allows the system controller to modulate RPM based on real-time thermistor data, ensuring the 60mm 5VDC Blower Fan maintains optimal junction temperatures without unnecessary power draw. This BAPB0604R5HY002 Blower Fan effectively mitigates localized heat soak in mobile processors by maintaining a consistent 0.50A airflow velocity through restricted exhaust ports.

Model Number: BAPB0604R5HY002

Brand: AVC

Product Type: DC Centrifugal Blower Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.50A

Power: 2.5W

Rated Speed: Variable via PWM

Bearing Type: Fluid Dynamic Bearing (FDB)

Dimensions: 60mm x 60mm x 5mm

Weight: 18g

Life Expectancy: 40,000 Hours at 40C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Pin / 4-Wire Connector

Housing Material: UL94V-0 Reinforced Plastic / Metal Shield

Blade Material: UL94V-0 PBT

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +75C

Protection Features: Locked Rotor Protection, Auto-Restart

Certifications: CE, RoHS Compliant

Applications & Industry Use Cases

1. Lenovo Yoga Duet 7: Direct replacement fan for 13IML05 models to restore factory cooling efficiency.
2. Ultra-Thin Convertibles: Ideal for 2-in-1 laptops requiring low-profile 5mm centrifugal cooling solutions.
3. Tablet Thermal Repair: Used as a BAPB0604R5HY002 replacement fan to fix thermal throttling issues.
4. Mobile Edge Computing: Provides penetrating airflow for compact ARM-based processing modules.
5. Portable Medical Tablets: Ensures silent, reliable heat dissipation in handheld diagnostic equipment.
6. Industrial HMI Panels: Prevents heat soak in slim-form factor touch interface controllers.

Supplemental Images

