

GC054007VH-8.M.B197 Sunon 5VDC 45mm 4-Wire Blower Fan Datasheet



Brand: SUNON

SKU: 765418999014

Category: Axial & Centrifugal Fans

Price: \$13.99

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Product Description

The Sunon GC054007VH-8.M.B197 is a precision-engineered DC centrifugal blower fan designed for high-density thermal management applications where vertical clearance is restricted. Utilizing Sunon's proprietary MagLev (Magnetic Levitation) motor technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction, noise, and vibration while extending operational lifespan. The 5VDC motor drives a dynamically balanced impeller housed within a compact 45mm frame, optimized for high static pressure generation to overcome high thermal impedance in enclosed systems. Its 4-wire configuration supports Pulse Width Modulation (PWM) speed control and tachometer signal output, allowing for granular thermal regulation and real-time RPM monitoring in critical electronic assemblies.

Model Number: GC054007VH-8.M.B197

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Product Type: DC Centrifugal Blower Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Power Consumption: 1.30 W

Rated Current: 0.26 A

Rated Speed: 5500 RPM (Nominal)

Bearing Type: MagLev (Vapo Bearing System)

Max. Air Flow: 2.3 CFM (3.9 m³/h)

Max. Static Pressure: 0.38 inH₂O (9.65 mmH₂O)

Dimensions: 45mm x 45mm x 7mm

Weight: 18.5 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 28.0 dBA

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Termination: 4-Wire Lead

Wire Assignment: Red (+), Black (-), Yellow (Tach), Blue (PWM)

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Class: Class A

Safety Certifications: UL, CUR, TUV

This centrifugal blower is specifically engineered for space-constrained electronics requiring directed airflow and high static pressure. The GC054007VH-8.M.B197 is frequently integrated into ultra-thin laptops, compact projectors, and rack-mounted server interface cards where vertical clearance is limited. Additionally, the GC054007VH-8.M.B197 serves as a critical cooling component in portable medical instrumentation and industrial embedded systems, ensuring reliable heat dissipation from heatsinks and processors in enclosed chassis environments.

Supplemental Images

