

EG50040S1-CR00-S9A SUNON 5VDC 0.50A Blower Fan Datasheet



Brand: SUNON

SKU: 990749102136

Category: Axial & Centrifugal Fans

Price: \$17.99

E-mail: sales@equipspares.com

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

Product Page: <https://www.equipspares.com/product/eg50040s1-cr00-s9a-sunon-5vdc-0-50a-blower-fan>

Product Description

SUNON EG50040S1-CR00-S9A is a 5VDC ultra-slim centrifugal blower fan optimized for thermal management in high-density mobile computing environments. Engineered specifically for the HP ProBook 440 and 450 G9 series (ZHAN 66 5th Gen), this unit addresses the critical technical problem of localized heat concentration in thin-profile chassis. The blower utilizes a sophisticated brushless DC motor architecture paired with a high-precision bearing system to minimize thermal impedance while maintaining structural rigidity under high rotational velocities. Operating at a rated current of 0.50A, the aerodynamic impeller design is tuned to overcome the high static pressure typical of compact heat pipe heat exchangers. This ensures consistent heat dissipation and prevents thermal throttling during peak CPU/GPU loads, maintaining system stability through precise PWM speed control.

Model Number: EG50040S1-CR00-S9A

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Product Type: Centrifugal Blower Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.50 A

Power: 2.5 W

Rated Speed: 4500 RPM

Bearing Type: MagLev / Hydraulic

Max. Air Flow: 4.85 CFM

Max. Static Pressure: 12.4 mmH₂O

Dimensions: 50 x 50 x 4 mm

Weight: 25 g

Life Expectancy: 30,000 Hours at 40C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Pin 4-Wire Connector

Housing Material: UL94V-0 Thermoplastic / Aluminum Plate

Blade Material: UL94V-0 Thermoplastic

Operating Temperature: -10 to +70 C

Storage Temperature: -40 to +75 C

Protection Features: Locked Rotor Protection, Auto-Restart

Certifications: CE, TUV, UL Recognized

HP Spare Part Number: N13968-001

Regulatory Model: HSN-Q32C, HSN-Q33C

EG50040S1-CR00-S9A Applications

1. HP ProBook 440/450 G9 Thermal Repair: Ideal replacement fan for HSN-Q32C and HSN-Q33C chassis to restore factory-spec cooling efficiency and eliminate bearing noise.
2. Ultra-Thin Laptop Maintenance: Specifically engineered to overcome the high system impedance of dense fin-stack heat sinks in 14-inch and 15-inch business notebooks.
3. Precision Mobile Workstations: Provides low-vibration cooling for optical and solid-state components in ruggedized thin-client hardware." hardware.

Supplemental Images

