

EG50050S1-C780-S9A SUNON 5VDC 0.40A 50mm Blower Fan Datasheet



Brand: SUNON

SKU: [841617578673](#)

Category: Axial & Centrifugal Fans

Price: **\$18.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/eg50050s1-c780-s9a-sunon-5vdc-0-40a-50mm-blower-fan>

Product Description

The SUNON EG50050S1-C780-S9A is a 5VDC 50mm centrifugal blower fan optimized for high-density thermal management in ultra-compact mobile computing environments. Engineered with SUNON's proprietary motor technology and a specialized MagLev bearing architecture, this unit minimizes thermal impedance while maintaining structural rigidity under high-speed operation. The 0.40A current draw delivers a precise balance of 2.0W power consumption and high static pressure, essential for overcoming the airflow resistance of dense copper heat sink fins. This 4-wire PWM-controlled blower is the primary thermal solution for Dell Latitude E5470 systems, ensuring stable CPU temperatures during peak computational loads.

Model Number: EG50050S1-C780-S9A

Brand: SUNON

Product Type: Centrifugal Blower Fan

Rated Voltage: 5 VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.40 A

Power: 2.0 W

Rated Speed: 4500 RPM

Bearing Type: MagLev VAPO Bearing

Max. Air Flow: 4.8 CFM

Max. Static Pressure: 12.4 mmH₂O

Dimensions: 50 x 50 x 5 mm

Weight: 25 g

Life Expectancy: 50,000 Hours at 40C

Speed Control: PWM (Pulse Width Modulation)

Feedback: Tachometer / Frequency Generator

Termination: 4-Pin / 4-Wire Connector

Housing Material: UL94V-0 Thermoplastic

Blade Material: UL94V-0 Thermoplastic

Operating Temperature: -10 to +70 C

Storage Temperature: -40 to +70 C

Protection: Locked Rotor Protection, Auto Restart

Compatibility: Dell Latitude E5470, P/N 0XGYJW, DC28000GGSL, DC28000GLSL

EG50050S1-C780-S9A Applications

1. Dell Latitude E5470 Thermal Repair: Direct OEM replacement fan designed to match the specific pressure-flow curve required for E5470 chassis cooling.
2. Ultra-Thin Laptop Maintenance: Ideal for overcoming high system impedance in 5mm-profile thermal modules where axial fans lack sufficient static pressure.
3. Embedded SFF Systems: Provides localized spot cooling for high-TDP components in small form factor industrial controllers requiring 4-wire PWM speed modulation.

Supplemental Images

