

EG50050S1-C270-S9A SUNON DC5V 0.38A 4.4CFM CPU Cooling Fan Datasheet



Brand: SUNON

SKU: [950645311298](#)

Category: Axial & Centrifugal Fans

Price: **\$24.29**

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Product Description

The SUNON EG50050S1-C270-S9A is a high-performance brushless DC cooling fan featuring a 50 mm x 50 mm x 5 mm form factor and a 3-phase, 4-pole motor design. Operating at a nominal 5 VDC with a current draw of 0.38 A, this unit delivers a rated airflow of 4.4 CFM. The internal mechanism utilizes a lubricated sleeve bearing system designed for a service life of 100,000 hours. Constructed with a SECC steel and thermoplastic PPE housing (UL 94V-0 rated) and Liquid Crystal Polymer (LCP) blades, the fan ensures structural integrity under thermal stress. It incorporates a 4-wire interface supporting PWM (Pulse Width Modulation) for intelligent speed control, typically operating at an auto-regulated 2500 RPM to balance static pressure and acoustic output.

EG50050S1-C270-S9A Specifications

Model Number: EG50050S1-C270-S9A

Brand: SUNON

Compatible Part Numbers: 01PR3V, 1PR3V, DC28000EFSL, 06YYDG

Motor Type: 3-phase, 4-pole Brushless DC

Nominal Voltage: 5 VDC

Operating Voltage Range: 3.5 to 5.5 VDC

Rated Current: 0.38 A

Rated Power: 1.9 W

Airflow: 4.4 CFM

Rotational Speed: 2500 RPM (Auto-regulated)

Bearing Type: Lubricated Sleeve Bearing

Interface: 4-wire / 4-pin PWM Connector

Dimensions: 50 mm x 50 mm x 5 mm

Housing Material: SECC and Thermoplastic PPE (UL 94V-0)

Blade Material: Liquid Crystal Polymer (LCP)

Rotation Direction: Counter-clockwise (viewed from blade)

Expected Life: 100,000 hours

Safety Certifications: CE, RoHS Compliant

Weight: 0.35 lb

EG50050S1-C270-S9A Applications

Primary applications include integration into Dell Latitude E5450 business laptop chassis for active thermal management of the central processing unit. It is specifically deployed within discrete Nvidia graphics configurations to facilitate heat dissipation through dedicated copper heat pipe assemblies.

Supplemental Images

