

VF80381BX-Q140-Q9I SUNON 12VDC 50.4W 80x80x38mm Axial Fan Datasheet



Brand: SUNON

SKU: 1042738489150

Category: Axial & Centrifugal Fans

Price: \$24.71

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Product Description

SUNON VF80381BX-Q140-Q9I is an 80 x 80 x 38 mm axial fan featuring a 12 VDC operating voltage, 50.4 W power consumption, and 118.5 CFM airflow capacity. This unit features a dual ball bearing system and a thermoplastic PBT (UL 94V-0) impeller and frame construction. It utilizes a 4-wire interface supporting PWM speed control and tachometer output. The internal motor is a brushless DC design with auto-restart and polarity protection, capable of reaching speeds up to 13,500 RPM to generate 3.55 inch-H₂O static pressure.

VF80381BX-Q140-Q9I Specifications

Model: VF80381BX-Q140-Q9I

Brand: SUNON

Category: DC Axial Fan

Dimensions: 80 x 80 x 38 mm

Rated Voltage: 12 VDC

Operating Voltage Range: 10.2 to 13.8 VDC

Rated Power: 50.4 W

Rated Current: 4.2 A

Rated Speed: 13,500 RPM

Airflow: 118.5 CFM

Static Pressure: 3.55 inch-H₂O

Noise Level: 71.5 dB(A)

Bearing Type: Dual Ball Bearing

Interface: 4-wire (PWM, Tachometer)

Material: PBT Thermoplastic (UL 94V-0)

Operating Temperature: -10 to 70 °C

Storage Temperature: -40 to 70 °C

Weight: 210 g

Safety Certifications: UL, TUV, CE

Insulation Resistance: 10 M ohm at 500 VDC

Life Expectancy: 70,000 hours at 40 °C

VF80381BX-Q140-Q9I Applications

Primary applications include integration into high-density server rack enclosures, enterprise-grade network switches, and blade server cooling modules. Deployed within high-performance computing (HPC) thermal management systems and industrial power supply units requiring extreme static pressure for dense component cooling.

Supplemental Images

