

MF80251V2-Q010-S99 Sunon 12VDC 80x80x25mm 4-Wire Axial Fan Datasheet



Brand: SUNON

SKU: [635272549749](#)

Category: Axial & Centrifugal Fans

Price: **\$15.99**

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Product Page:

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Product Description

Sunon MF80251V2-Q010-S99 is a 12VDC 80x80x25mm Axial Fan optimized for dynamic thermal impedance management in compact electronic enclosures. Utilizing advanced MagLev motor technology and a proprietary Vapo bearing architecture, this unit ensures frictionless rotation and exceptional structural rigidity over extended operational lifespans. The aerodynamic blade design maximizes airflow efficiency while minimizing acoustic resonance. Operating at 3.60W and drawing 0.30A, this 4-wire PWM-controlled cooling solution allows for precise RPM modulation and tachometer feedback, making it an ideal replacement fan for systems requiring strict thermal regulation and low vibration profiles.

Model Number: MF80251V2-Q010-S99

Brand: Sunon

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Operating Voltage Range: 4.5 - 13.8 VDC

Rated Current: 0.30 A

Power Consumption: 3.60 W

Rated Speed: 2900 RPM

Bearing Type: MagLev Vapo Bearing

Max. Air Flow: 39.0 CFM (66.2 m³/h / 1.10 m³/min)

Max. Static Pressure: 4.06 mmH₂O (39.8 Pa / 0.16 inH₂O)

Dimensions: 80 x 80 x 25 mm

Weight: 75 g

Life Expectancy: 60,000 Hours at 40°C

Speed Control: 4-Wire PWM

Sensor Output: Tachometer (Speed Sensor)

Housing Material: Thermoplastic PBT UL94V-0

Blade Material: Thermoplastic PBT UL94V-0

Termination: 4 Lead Wires

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Motor Protection: Auto Restart, Polarity Protection

MF80251V2-Q010-S99 Applications

1. 2U Rackmount Servers: 4-wire PWM control allows dynamic RPM scaling to overcome high system impedance during peak processing loads while minimizing idle acoustics.
2. Telecommunication Base Stations: MagLev Vapo bearing architecture ensures low-vibration operation and extended MTBF in continuous-duty environments, serving as a highly reliable replacement fan.
3. Industrial Power Supplies: 3.60W motor provides sufficient static pressure to force ambient air through dense heatsink fins, maintaining optimal thermal limits for critical components.

Supplemental Images

