

BM5125-04W-B50-L06 NMB-MAT 12VDC 51x25mm Blower Fan Datasheet



Brand: NMB

SKU: 990487999773

Category: Axial & Centrifugal Fans

Price: \$15.99

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/bm5125-04w-b50-l06-nmb-mat-12vdc-51x25mm-blower-fan>

Product Description

The NMB-MAT BM5125-04W-B50-L06 is a precision-engineered centrifugal blower designed for high-static pressure applications within compact enclosures. Utilizing advanced DC motor technology and NMB's proprietary precision ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic volute design optimizes airflow trajectory, significantly reducing thermal impedance in densely packed electronic assemblies. Constructed with high-grade materials to maintain structural rigidity, this blower delivers reliable thermal management performance, making it an ideal solution for critical industrial cooling requirements where directed airflow is paramount.

Model Number: BM5125-04W-B50-L06

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: Centrifugal Blower / DC Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.32 A

Power Input: 3.84 W

Rated Speed: 4800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 5.3 CFM (9.0 m³/h / 0.15 m³/min)

Max. Static Pressure: 18.5 mmH₂O (181.4 Pa / 0.73 inH₂O)

Dimensions: 51mm x 51mm x 25mm

Weight: 40 g

Life Expectancy: 50,000 Hours at 40°C

Noise Level: 38.0 dBA

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 2-Wire Lead (Red +, Black -)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

Insulation Class: Class E

The BM5125-04W-B50-L06 is specifically engineered for applications requiring concentrated airflow and high static pressure to overcome system resistance. Common deployments include server rack cooling, projector lamp cooling, and compact power supply units where space is limited but thermal density is high. The BM5125-04W-B50-L06 is also frequently utilized in medical instrumentation and telecommunications equipment, ensuring critical components remain within safe operating temperature ranges through efficient heat dissipation.

Supplemental Images

