

BM5125-04W-B59-T57 NMB-MAT 12VDC 50x50x25mm 0.32A Blower Datasheet



Brand: NMB

SKU: [834769634521](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

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Product Description

The NMB-MAT BM5125-04W-B59-T57 is a precision-engineered DC centrifugal blower designed for applications requiring concentrated airflow and high static pressure. Utilizing NMB's proprietary precision ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous loads. The aerodynamic scroll housing is constructed to optimize thermal impedance management, directing air efficiently through restricted pathways. Its brushless DC motor integrates advanced commutation logic to maintain stable torque delivery at 4650 RPM, while the robust thermoplastic chassis provides essential structural rigidity against vibration. This 50mm blower represents a balance of compact form factor and industrial-grade reliability.

Model Number: BM5125-04W-B59-T57

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.32 A

Input Power: 3.84 W

Rated Speed: 4650 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 5.65 CFM (9.6 m³/h)

Max. Static Pressure: 0.55 inH₂O (137 Pa)

Dimensions: 51 x 51 x 25 mm

Weight: 40 g

Life Expectancy: 50,000 Hours @ 40°C

Termination: 3-Wire with 3-Pin Connector

Wire Length: 160 mm

Speed Control: Tachometer Output (Speed Signal)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Mounting Orientation: Any

The BM5125-04W-B59-T57 is frequently deployed in compact electronic assemblies where space constraints demand a 90-degree airflow intake and exhaust configuration. Common implementations include cooling hot-end components in 3D printers, ventilating projection equipment, and managing thermal loads in dense telecommunications modules. The high static pressure capability of the BM5125-04W-B59-T57 makes it particularly effective for forcing air through heatsink fins and restricted ducts in industrial automation equipment and rack-mounted server power supplies.

Supplemental Images

