

2004KL-04W-B59-M08 NMB-MAT 24VDC 50x50x10mm Axial Fan Datasheet



Brand: NMB

SKU: 1034757824436

Category: Axial & Centrifugal Fans

Price: \$16.99

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/2004kl-04w-b59-m08-nmb-mat-24vdc-50x50x10mm-axial-fan>

Product Description

NMB-MAT 2004KL-04W-B59-M08 is a 24VDC 50x50x10mm Axial Fan optimized for high-density electronic cooling where space constraints and thermal impedance are critical factors. This DC brushless motor utilizes a precision-engineered dual ball bearing architecture to ensure structural rigidity and extended operational longevity. The aerodynamic impeller design is crafted from UL94V-0 reinforced plastic to maximize laminar flow while minimizing acoustic turbulence. Operating at a rated current of 0.14A and a speed of 5500 RPM, this unit delivers a static pressure of 38.2 Pa, making it an ideal solution for overcoming localized heat concentrations in industrial power supplies and compact telecommunications hardware.

Model Number: 2004KL-04W-B59-M08

Brand: NMB-MAT

Product Type: Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.14 A

Power: 3.36 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 11.3 CFM (0.32 m³/min)

Max. Static Pressure: 3.90 mmH₂O (38.2 Pa / 0.15 inH₂O)

Dimensions: 50 x 50 x 10 mm

Weight: 25 g

Life Expectancy: 100,000 Hours

Noise Level: 30.0 dB

Housing Material: Plastic (Black) UL94V-0

Blade Material: Plastic (Black) UL94V-0

Termination: 2 Lead Wires

Operating Temperature: -10 to +70 C

Storage Temperature: -40 to +70 C

Insulation Resistance: 10M Ohm min. at 500VDC

Protection: Auto Restart, Polarity Protection

2004KL-04W-B59-M08 Applications

1. Compact VFD Inverters: The 10mm slim profile and 24VDC compatibility allow for integrated cooling within variable frequency drive housings where internal clearance is minimal.
2. Industrial Power Supply Replacement Fan: Specifically engineered to replace failed units in 1U rackmount power modules requiring high static pressure to move air through tightly packed capacitors.
3. Medical Diagnostic Equipment: Low-vibration dual ball bearings provide the mechanical stability necessary for sensitive optical or laboratory analysis hardware requiring consistent thermal regulation.

Supplemental Images

