

# 2110RL-04W-B49-X04 NMB-MAT 12VDC 50x50x25mm Axial Fan Datasheet



**Brand:** NMB

**SKU:** [986202828871](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$37.99**

**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

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

Product Page:

<https://www.equipspares.com/product/2110rl-04w-b49-x04-nmb-mat-12vdc-50x50x25mm-axial-fan>

## Product Description

The NMB-MAT 2110RL-04W-B49-X04 is a precision-engineered DC Axial Fan designed to deliver superior thermal management in compact electronic environments. Leveraging MinebeaMitsumi's advanced dual ball bearing architecture, this unit minimizes frictional losses and ensures exceptional rotational stability over an extended service life. The aerodynamic impeller profile is optimized to balance high static pressure with airflow efficiency, effectively lowering thermal impedance in dense component layouts. Housed in a rigid, UL94V-0 rated reinforced plastic frame, the motor assembly features sophisticated commutation electronics that reduce electromagnetic interference and enhance structural rigidity, making it an ideal solution for systems requiring continuous, reliable cooling performance.

Model Number: 2110RL-04W-B49-X04

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.29 A

Input Power: 3.48 W

Rated Speed: 6100 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 20.1 CFM (34.1 m<sup>3</sup>/h / 0.57 m<sup>3</sup>/min)  
Max. Static Pressure: 6.5 mmH<sub>2</sub>O (63.7 Pa / 0.25 inH<sub>2</sub>O)  
Dimensions: 50 x 50 x 25 mm  
Weight: 40 g  
Life Expectancy: 100,000 Hours at 25°C  
Noise Level: 38.0 dBA  
Speed Control: Tachometer Output (3-Wire)  
Housing Material: PBT Plastic (UL94V-0)  
Impeller Material: PBT Plastic (UL94V-0)  
Termination: Lead Wires  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Insulation Resistance: 10M Ohm min. at 500VDC  
Dielectric Strength: 700VAC for 1 second  
Protection: Locked Rotor Protection, Polarity Protection

This cooling component is widely deployed in applications demanding high reliability within limited spatial envelopes, such as multimedia projectors, optical engines, and compact industrial power supplies. The 2110RL-04W-B49-X04 provides the necessary static pressure to force air through dense heatsinks found in server chassis and telecommunications equipment. Furthermore, the 2110RL-04W-B49-X04 is suitable for medical instrumentation and automation control units where consistent thermal regulation is paramount for preventing system failure and ensuring operational continuity.

## Supplemental Images

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