

2806KL-04W-B86-C0K NMB-MAT 12VDC 70x15mm PWM Axial Fan Datasheet



Brand: NMB

SKU: [703532973274](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

E-mail: sales@equipspares.com

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Product Description

The NMB-MAT 2806KL-04W-B86-C0K is a high-performance DC Axial Fan engineered by MinebeaMitsumi for critical thermal management in space-constrained environments. This unit features NMB's proprietary precision dual ball bearing architecture, which significantly reduces frictional coefficients and enhances structural rigidity, ensuring extended operational longevity under continuous high-speed loads. The aerodynamic impeller design is optimized to deliver superior airflow and static pressure while maintaining a compact profile. With a robust 12VDC motor drawing 0.65A, this fan incorporates Pulse Width Modulation (PWM) control, allowing for dynamic speed regulation to balance thermal impedance reduction with acoustic performance. The housing is constructed from durable, flame-retardant materials, making it suitable for demanding industrial and computing applications.

Model Number: 2806KL-04W-B86-C0K

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.65 A

Power Consumption: 7.80 W

Rated Speed: 6500 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 45.0 CFM (76.5 m³/h / 1.27 m³/min)

Max. Static Pressure: 7.5 mmH₂O (73.5 Pa / 0.29 inH₂O)

Dimensions: 70 x 70 x 15 mm

Weight: 45 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead

Wire Assignment: Red (+), Black (-), Yellow (Tach), Blue (PWM)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Noise Level: 48.0 dBA

Protection: Locked Rotor Protection, Reverse Polarity Protection

Mounting: Ribbed Flange

Designed for high-density electronic assemblies, the 2806KL-04W-B86-C0K is extensively deployed in 1U and 2U server chassis, compact industrial PC cases, and telecommunications rack equipment. Its slim 15mm profile allows for integration into tight clearances where standard 25mm fans cannot fit, such as CPU heatsink cooling and power supply ventilation. The 2806KL-04W-B86-C0K is also utilized in medical instrumentation and automated CNC control systems, providing reliable forced air convection to dissipate heat from sensitive semiconductors and ensure system stability.

Supplemental Images

