

1608KL-01W-B59-L00 NMB-MAT 5VDC 0.49A 40x40x20mm Axial Fan Datasheet



Brand: NMB

SKU: 998204313344

Category: Axial & Centrifugal Fans

Price: **\$14.99**

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Product Description

The NMB-MAT 1608KL-01W-B59-L00 is a high-efficiency Axial Fan engineered for precision thermal management in compact electronic assemblies. Utilizing NMB's proprietary Dual Ball Bearing technology, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity, effectively reducing thermal impedance in high-density environments. Operating at a low voltage of 5VDC with a robust 0.49A current draw, the 1608KL-01W-B59-L00 delivers superior static pressure capabilities, making it an ideal solution for critical cooling applications requiring reliable performance and durability.

Model Number: 1608KL-01W-B59-L00

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 5V DC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.49 A

Power Consumption: 2.45 W

Rated Speed: 9500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 10.9 CFM (18.5 m³/h / 0.31 m³/min)

Max. Static Pressure: 8.6 mmH₂O (84.3 Pa / 0.34 inH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 25 g

Life Expectancy: 60,000 Hours at 25°C

Noise Level: 42.0 dBA

Termination: 3-Wire (Lead Wire)

Signal Output: Tachometer / Locked Rotor Sensor (L00)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 700VAC for 1 second

Mounting Orientation: Any

Certifications: UL, CSA, TUV, VDE, RoHS

This cooling solution is specifically designed for integration into space-constrained industrial and IT equipment. The 1608KL-01W-B59-L00 is frequently utilized in 1U server rack power supplies, compact telecommunications enclosures, and precision medical instrumentation where reliable heat dissipation is paramount. Additionally, the 1608KL-01W-B59-L00 serves as a critical component in CNC control modules and embedded systems, ensuring optimal operating temperatures for sensitive electronic components.

Supplemental Images

