

MGT4012ZB-W28 Magic 12VDC 40x40x28mm 4-Wire Axial Fan Datasheet



Brand: Protechnic

SKU: 805956829770

Category: Axial & Centrifugal Fans

Price: **\$14.99**

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Product Page:

<https://www.equipspares.com/product/mgt4012zb-w28-magic-12vdc-40x40x28mm-4-wire-axial-fan>

Product Description

The Magic MGT4012ZB-W28 is a DC Axial Fan engineered for high-density thermal management applications requiring robust static pressure and sustained airflow delivery. Utilizing advanced electromagnetic induction technology, this unit integrates a precision-balanced impeller housed within a reinforced thermoplastic frame to ensure structural rigidity under high-load operations. The aerodynamic blade profile is optimized to minimize turbulence while maximizing air exchange efficiency, significantly reducing thermal impedance in compact enclosures. Anchored by a dual ball bearing architecture, the motor assembly guarantees operational longevity and stability, making it an ideal solution for critical electronic environments where consistent cooling performance is paramount for system reliability.

Model Number: MGT4012ZB-W28

Brand: Magic (Magic Precision Inc.)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.40 A

Power Consumption: 4.80 W

Dimensions: 40 x 40 x 28 mm

Bearing Type: Dual Ball Bearing

Rotational Direction: Counter-Clockwise (Viewing from Strut Side)

Airflow Direction: Intake over Struts

Max. Air Flow: 24.5 CFM (41.6 m³/h / 0.69 m³/min)

Max. Static Pressure: 18.5 mmH₂O (181.4 Pa / 0.73 inH₂O)

Rated Speed: 13000 RPM

Termination: 4-Wire / 4-Pin Connector

Speed Control: PWM / Tachometer Signal

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 54.0 dB-A

Net Weight: 45 g

Engineered for compact yet demanding thermal environments, the MGT4012ZB-W28 is specifically designed for high-power audio amplifiers and receiver units where heat dissipation is critical for signal fidelity. Beyond audio equipment, the MGT4012ZB-W28 serves as a robust cooling solution for 1U server racks, network switches, and industrial telecommunications gear requiring high static pressure in limited spaces. Its durable construction ensures reliable operation in continuous-duty cycles found in CNC control modules and medical instrumentation.

Supplemental Images

