

MGT4012YB-W28 Magic 12VDC 40x40x28mm 4-Wire Axial Fan Datasheet



Brand: Protechnic

SKU: 805983957524

Category: Axial & Centrifugal Fans

Price: \$14.99

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Product Page:

<https://www.equipspares.com/product/mgt4012yb-w28-magic-12vdc-40x40x28mm-4-wire-axial-fan>

Product Description

The Magic MGT4012YB-W28 is a high-density DC Axial Fan engineered for critical thermal management in compact electronic enclosures. Featuring a robust Double Ball Bearing architecture, this unit is designed to withstand continuous operation while minimizing frictional wear and thermal impedance. The 40x40x28mm frame houses a high-torque DC brushless motor capable of delivering significant static pressure, making it ideal for overcoming system resistance in tightly packed components. Its 4-wire configuration enables precise Pulse Width Modulation (PWM) speed control, allowing for dynamic adjustment of airflow to balance cooling efficiency with acoustic performance, ensuring structural rigidity and operational reliability in demanding industrial environments.

Model Number: MGT4012YB-W28

Brand: Magic Technology (Protechnic)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.38 A

Power: 4.56 W

Rated Speed: 13000 RPM

Bearing Type: Double Ball Bearing

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

Max. Static Pressure: 22.5 mmH₂O (220 Pa / 0.88 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 48 g

Life Expectancy: 70,000 Hours @ 40°C

Termination: 4-Wire Lead with 4-Pin Connector

Speed Control: PWM (Pulse Width Modulation)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

The MGT4012YB-W28 is specifically optimized for high-heat dissipation scenarios such as power amplifiers and 1U server chassis where space is at a premium. Its high static pressure capabilities allow the MGT4012YB-W28 to effectively force air through dense heatsinks and restricted ventilation paths found in network switches and industrial automation equipment. This model is also suitable for precision medical devices and telecommunications gear requiring consistent, high-velocity airflow to maintain component stability.

Supplemental Images

