

MGT5012XB-A20 Magic 12VDC 50x50x12mm 2-Ball Axial Fan Datasheet



Brand: Protechnic

SKU: 805393329564

Category: Axial & Centrifugal Fans

Price: \$11.99

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Product Page:

<https://www.equipspares.com/product/mgt5012xb-a20-magic-12vdc-50x50x12mm-2-ball-axial-fan>

Product Description

The Magic MGT5012XB-A20 is a DC Axial Fan engineered for critical thermal management in high-density electronic enclosures. Utilizing advanced brushless DC motor technology paired with a precision-machined Dual Ball Bearing architecture, this unit delivers exceptional rotational stability and reduced friction coefficients, significantly extending operational service life. The aerodynamic impeller design is optimized to minimize turbulence while maximizing static pressure capabilities, ensuring efficient heat dissipation through dense fin stacks. Constructed with high-rigidity PBT thermoplastic, the frame offers superior structural integrity and vibration damping, making it an ideal solution for industrial environments requiring low thermal impedance and continuous duty reliability.

Model Number: MGT5012XB-A20

Brand: Magic (Protechnic Electric)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.24 A

Power Consumption: 2.88 W

Rated Speed: 5800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 12.5 CFM (21.24 m³/h / 0.35 m³/min)

Max. Static Pressure: 3.50 mmH₂O (34.32 Pa / 0.14 inH₂O)

Dimensions: 50x50x12mm

Weight: 25 g

Noise Level: 34.0 dBA

Life Expectancy: 70,000 Hours @ 40°C

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 2-Wire Lead

Ingress Protection: IP40

Safety Certifications: CE, UL, TUV

The MGT5012XB-A20 is specifically designed for integration into compact chassis and server cabinets where space is at a premium but airflow cannot be compromised. Its robust thermal profile makes it suitable for network switches, industrial automation controllers, and medical instrumentation cooling. Engineers frequently specify the MGT5012XB-A20 for telecommunications equipment and power supply units, relying on its high static pressure to overcome the resistance of dust filters and tightly packed components.

Supplemental Images

