

MGA4012XB-O10 MAGIC 12VDC 40x40x10mm Laser Cooling Axial Fan Datasheet



Brand: Protechnic

SKU: [805878996899](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mga4012xb-o10-magic-12vdc-40x40x10mm-laser-cooling-axial-fan>

Product Description

The MAGIC MGA4012XB-O10 is a compact axial cooling solution engineered for precision thermal management in space-constrained environments. Utilizing a robust DC motor architecture paired with a dual ball bearing system, this unit ensures exceptional longevity and structural rigidity under continuous operation. The aerodynamic blade design optimizes airflow efficiency while minimizing turbulence, resulting in a favorable thermal impedance profile. Constructed with durable thermoplastic materials, it provides reliable heat dissipation for sensitive electronic components requiring stable operating temperatures and minimal vibration.

Model Number: MGA4012XB-O10

Brand: MAGIC (Yongli)

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.13 A

Power: 1.56 W

Rated Speed: 6500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 7.2 CFM (12.2 m³/h / 0.20 m³/min)

Max. Static Pressure: 3.8 mmH₂O (37.2 Pa / 0.15 inH₂O)

Dimensions: 40x40x10mm

Weight: 15 g

Life Expectancy: 70,000 Hours @ 40°C

Noise Level: 28.0 dBA

Housing Material: PBT Thermoplastic (UL94V-0)

Blade Material: PBT Thermoplastic (UL94V-0)

Termination: 2-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Ingress Protection: IP40

Designed specifically for high-precision instrumentation, the MGA4012XB-O10 excels in cooling laser diodes and optical equipment where vibration minimization is critical. Its compact form factor allows for seamless integration into 1U server racks, portable medical devices, and small-scale CNC controllers. The MGA4012XB-O10 ensures consistent airflow to prevent thermal throttling in embedded systems and telecommunications modules, maintaining optimal performance in industrial environments.

Supplemental Images

