

MGA4012LS-O10 MAGIC 12VDC 40x40x10mm Axial Fan Datasheet



Brand: Protechnic

SKU: 805665550789

Category: Axial & Centrifugal Fans

Price: \$14.99

E-mail: sales@equipspares.com

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Product Page: <https://www.equipspares.com/product/mga4012ls-o10-magic-12vdc-40x40x10mm-axial-fan>

Product Description

The MAGIC MGA4012LS-O10 is a precision-engineered DC axial fan designed to meet the rigorous thermal demands of compact industrial and optical electronics. Utilizing advanced brushless DC motor technology, this unit features a robust aerodynamic blade design that optimizes laminar airflow while minimizing turbulence and acoustic noise. The chassis is constructed for high structural rigidity, ensuring consistent blade alignment and reduced vibration during operation. Engineered with a focus on low thermal impedance and longevity, the MGA4012LS-O10 provides reliable heat dissipation, making it a critical component for maintaining the operational stability and efficiency of sensitive laser instrumentation and high-density electronic assemblies.

Model Number: MGA4012LS-O10

Brand: MAGIC (Magic Precision Inc.)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.08 A

Input Power: 0.96 W

Rated Speed: 4500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 5.2 CFM (8.83 m³/h / 0.14 m³/min)

Max. Static Pressure: 2.8 mmH₂O (27.4 Pa / 0.11 inH₂O)

Dimensions: 40 x 40 x 10 mm

Weight: 15 g

Noise Level: 21.0 dBA

Frame Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Ingress Protection: IP40

Insulation Class: Class A

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 2-Wire Lead (Red +, Black -)

Life Expectancy: 70,000 Hours at 40°C

Motor Protection: Impedance Protected, Reverse Polarity Protection

The MGA4012LS-O10 is specifically calibrated for integration into precision optical systems, particularly laser projection units and medical diagnostic lasers where vibration control and consistent cooling are paramount. Additionally, the MGA4012LS-O10 serves effectively in compact power supply units, small form-factor server chassis, and industrial automation controllers requiring reliable, continuous thermal exchange in restricted spaces.

Supplemental Images

