

MGA4012YB-A15 MAGIC 12VDC 40x40x10mm Cooling Axial Fan Datasheet



Brand: Protechnic

SKU: [805810034461](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/mga4012yb-a15-magic-12vdc-40x40x10mm-cooling-axial-fan>

Product Description

The MAGIC MGA4012YB-A15 is a specialized DC axial fan engineered for compact thermal management in high-reliability applications. Utilizing an advanced DC brushless motor architecture paired with a precision Double Ball Bearing system, this unit ensures exceptional rotational stability and minimized frictional coefficients over extended operational lifecycles. The frame and impeller are constructed from reinforced thermoplastic, offering superior structural rigidity and vibration dampening properties. Designed to optimize thermal impedance in restricted spaces, the aerodynamic impeller profile maximizes volumetric airflow while maintaining consistent static pressure, making it an ideal solution for sensitive electronic components requiring continuous heat dissipation.

Model Number: MGA4012YB-A15

Brand: MAGIC (Protechnic/Magic Precision)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.15 A

Power Input: 1.80 W

Rated Speed: 6500 RPM \pm 10%

Bearing Type: Dual Ball Bearing

Max. Air Flow: 7.20 CFM (12.23 m³/h / 0.20 m³/min)
Max. Static Pressure: 4.80 mmH₂O (47.07 Pa / 0.19 inH₂O)
Dimensions: 40 x 40 x 10 mm
Weight: 18.0 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 28.5 dBA
Frame Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Motor Type: Brushless DC (BLDC)
Ingress Protection: IP40 (Standard)
Insulation Class: Class A
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 2-Wire Lead (Red +, Black -)
Wire Gauge: 26 AWG
Mounting Orientation: Any
Compliance: RoHS, CE, UL

The MAGIC MGA4012YB-A15 is specifically configured for precision equipment where space is at a premium and reliability cannot be compromised. Its primary application lies within the cooling systems of professional laser lighting modules, where maintaining stable diode temperatures is critical for performance longevity. Additionally, the MGA4012YB-A15 is widely utilized in compact network switches, embedded industrial controllers, 3D printer hotend cooling, and small form-factor power supplies. The robust ball bearing design ensures the MGA4012YB-A15 withstands the rigorous duty cycles typical of 24/7 industrial environments.

Supplemental Images

