MGA5012XB-A20 Magic 12VDC 50x50x20mm 0.24A Axial Fan Datasheet

Brand: Protechnic

SKU: 802523612760

Category: Axial & Centrifugal Fans

Price: **$14.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/mga5012xb-a20-magic-12vdc-50x50x20mm-0-24a-axial-fan

Product Description

The Magic MGA5012XB-A20 is a high-efficiency DC axial fan engineered for critical thermal management in industrial electronics and projection systems. Featuring a robust brushless DC motor architecture coupled with a precision Dual Ball Bearing system, this unit offers reduced thermal impedance and exceptional longevity under continuous operation. The frame is constructed to ensure maximum structural rigidity, minimizing vibration and resonance in sensitive equipment. Its aerodynamic impeller design optimizes airflow dynamics, delivering consistent cooling performance while maintaining acoustic stability. Designed for reliability, the MGA5012XB-A20 ensures optimal operating temperatures for power electronics and compact inverter modules.

Model Number: MGA5012XB-A20
Brand: Magic (Protechnic)
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 0.24 A
Power Input: 2.88 W
Rated Speed: 5200 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 16.5 CFM (28.0 m³/h / 0.46 m³/min)

Max. Static Pressure: 4.8 mmH_2O (47.0 Pa / 0.19 inH_2O)
Dimensions: 50 x 50 x 20 mm
Weight: 28 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 31.0 dB(A)
Housing Material: PBT Thermoplastic Black (UL94V-0)
Impeller Material: PBT Thermoplastic Black (UL94V-0)
Termination: 2-Wire Lead (+ Red, - Black)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP40
Safety Protection: Impedance Protected

The MGA5012XB-A20 is specifically calibrated for demanding applications such as high-lumen projectors and power inverters where heat dissipation is critical for component longevity. Its compact 50mm form factor allows for seamless integration into dense electronic assemblies found in telecommunication racks and industrial automation controllers. By maintaining consistent airflow, the MGA5012XB-A20 effectively prevents thermal throttling in sensitive power conversion modules. Additionally, this model is frequently utilized in medical instrumentation, small-scale server cooling solutions, and DIY electronic repairs requiring a durable, high-static pressure cooling solution.

Supplemental Images