MGT5012XB-W10 Protechnic 12VDC 50x50x10mm Axial Fan Datasheet

Brand: Protechnic

SKU: 804509994931

Category: Axial & Centrifugal Fans

Price: **$14.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/mgt5012xb-w10-protechnic-12vdc-50x50x10mm-axial-fan

Product Description

Protechnic MGT5012XB-W10 is a 12VDC 50x50x10mm Axial Fan optimized for high-density thermal management in space-constrained GPU and compact electronics cooling. This unit utilizes a high-efficiency DC brushless motor architecture paired with a precision bearing system to minimize thermal impedance and ensure long-term structural rigidity. Operating at a rated current of 0.19A, the aerodynamic blade geometry is engineered to overcome significant system impedance while maintaining stable airflow. The integration of a 4-wire PWM control interface allows for precise RPM modulation, ensuring the fan meets specific cooling demands while optimizing the acoustic profile and power consumption in high-performance computing environments.

Model Number: MGT5012XB-W10
Brand: Protechnic
Product Type: Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.19 A
Power: 2.28 W
Rated Speed: 5500 RPM
Bearing Type: Two Ball Bearing
Max. Air Flow: 12.4 CFM (21.1 m^3/h)

Max. Static Pressure: 4.2 mmH_2O (41.2 Pa)
Dimensions: 50 x 50 x 10 mm
Weight: 25 g
Life Expectancy: 70,000 hours at 40°C
Speed Control: PWM Control / Tachometer Output
Termination: 4-Wire Lead Wires
Housing Material: Plastic (UL94V-0)
Blade Material: Plastic (UL94V-0)
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +75 °C
Protection Features: Locked Rotor Protection, Reverse Polarity Protection

MGT5012XB-W10 Applications

1. Discrete GPU Thermal Modules: The 10mm ultra-slim profile and PWM control make it an ideal replacement fan for high-end graphics card shrouds requiring precise thermal regulation.
2. 1U Network Switch Gear: Engineered to overcome high static pressure within densely packed 1U rackmount chassis where airflow paths are restricted by internal components.
3. Industrial Embedded Systems: Provides low-vibration cooling for compact industrial PCs and VFD control logic boards where reliability and small form factors are critical.

Supplemental Images


MAGIC
Protechnic
MGT5012XB-W10
12V 0.19A
ZP
+ YELLOW
- BLACK
2018-12-04
PROTECHNIC ELECTRIC
MADE IN CHINA