

MGT5012YB-O20B Protechnic 12VDC 0.30A 50x50x12mm Cooling Fan Datasheet



Brand: Protechnic

SKU: [1045478783333](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mgt5012yb-o20b-protechnic-12vdc-0-30a-50x50x12mm-cooling-fan>

Product Description

Protechnic MGT5012YB-O20B is a 50 x 50 x 12 mm axial cooling fan operating at a nominal 12 VDC with a 0.30 A current draw. The unit features a dual ball bearing system and a PBT plastic housing and impeller rated to UL 94V-0 standards. It utilizes a 3-wire interface providing power and a frequency generator (FG) signal for speed monitoring. The internal brushless DC motor is designed for high-static pressure performance with a compact 12 mm profile.

MGT5012YB-O20B Specifications

Model: MGT5012YB-O20B

Brand: Protechnic Electric

Dimensions: 50 x 50 x 12 mm

Voltage: 12 VDC

Operating Voltage Range: 10.8 to 13.2 VDC

Current: 0.30 A

Power Consumption: 3.6 W

Bearing Type: Dual Ball Bearing

Termination: 3-Wire Lead Wires

Signal Output: Tachometer / FG Signal

Frame Material: Thermoplastic PBT (UL 94V-0)

Impeller Material: Thermoplastic PBT (UL 94V-0)

Motor Type: Brushless DC

Insulation Resistance: 10 M Ohm min. at 500 VDC

Dielectric Strength: 5 mA max. at 500 VAC for 1 minute

MGT5012YB-O20B Applications

Primary applications include integration into 1U rackmount servers, high-fidelity audio power amplifiers, and compact network switch enclosures. Deployed within industrial CNC control cabinets and medical diagnostic imaging equipment requiring localized thermal management in space-constrained chassis.

Supplemental Images

