

MBT1705VS-W03 Protechnic 5V 17x17x5mm DC Blower Fan

SKU: MBT1705VS-W03

Price: \$9.99

Categories: Fans

Tags: Protechnic

Product Link:

<https://www.electspares.com/product/mbt1705vs-w03-protechnic-5v-17x17x5mm-dc-blower-fan/>

Product Description

The Protechnic MBT1705VS-W03 is an ultra-miniature 5 V DC Blower Fan with dimensions of 17 x 17 x 5 mm, specifically engineered for precision thermal management in high-density mobile electronics and wearable medical devices. Driven by a high-efficiency micromotor with integrated auto-restart and reverse polarity protection, this unit features a precise Max. Power Consumption of 0.6 W and a Max. Current Draw of 0.12 A at 5 V DC. Operating at an optimized rated speed for low-noise performance, it provides a dedicated directional airflow to maintain optimal temperature in space-constrained electronic environments. Constructed with a premium glass-fiber reinforced PBT plastic housing and a centrifugal impeller featuring precision dual ball bearings, this unit utilizes an integrated Flexible Printed Circuit (FPC) with a multi-pin connector for high-reliability electrical hookup in compact assemblies.

MBT1705VS-W03 Fan Parameters

Model Number: MBT1705VS-W03

Manufacturer: Protechnic (□□)

Type: DC Blower Fan

Dimensions: 17.0 x 17.0 x 5.0 mm

Weight: 2.5 g

Bearing Type: Ball bearing

Nominal Voltage: 5 V DC

Voltage Range: 4.0 - 5.5 V DC

Max. Power Consumption: 0.6 W

Max. Current Draw: 0.12 A (120 mA)

Rated Speed: 9500 RPM

Max. Air Flow: 0.65 CFM (1.1 m³/h / 0.018 m³/min)

Max. Static Pressure: 4.8 mmH₂O (47.0 Pa / 0.19 inH₂O)

Working Air Flow: 1.1 m³/h

Static Pressure Increase: 47.0 Pa

Motor Protection: Auto-restart and reverse polarity protection

Insulation Class: Class A

Insulation Resistance: Over 10 MΩ at DC 500 V

Dielectric Strength: 5 mA Max. at AC 500 V for 1 minute

Electrical Hookup: Integrated Flexible Printed Circuit (FPC) with multi-pin connector

Number of Blades: 21 (Centrifugal)

Direction of Rotation: Counter-clockwise (viewed toward rotor)

Airflow Direction: Radial (90-degree exhaust)

Housing Material: Glass-fiber reinforced PBT plastic (UL 94V-0)

Impeller Material: Glass-fiber reinforced PBT plastic (UL 94V-0)

Operation Mode: S1 (Continuous operation)

Sound Pressure Level: 23.5 dB(A)

Service Life (L10): 50,000 h (at 40 °C)

Operating Temperature: -10 - +70 °C

Storage Temperature: -40 - +80 °C (at 65% RH)

Standard Compliance: UL507; CE

Approval Agency: UL; CUL; TUV; CE

Application

The Protechnic MBT1705VS-W03 blower fan is the primary cooling component for micro-projectors, VR/AR headsets, and compact sensor modules requiring high-reliability FPC connections and directional airflow in a minimal footprint.

Product Images



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