

MF20100V2-1D02C-S99 SUNON 5VDC 20x20x10mm MagLev Fan Datasheet



Brand: SUNON

SKU: [741454156860](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

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Product Page:

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Product Description

The SUNON MF20100V2-1D02C-S99 is a compact DC axial fan engineered with Sunon's proprietary MagLev (Magnetic Levitation) Vapo bearing technology. This advanced architecture eliminates physical contact between the shaft and bearing, significantly reducing friction, noise, and vibration while extending operational lifespan. Designed for high-density electronic applications, the unit features a thermoplastic PBT housing and impeller rated to UL94V-0 standards. The brushless DC motor ensures consistent torque delivery and optimized thermal impedance, making it an ideal solution for precision cooling in space-constrained environments requiring reliable airflow and structural rigidity.

Model Number: MF20100V2-1D02C-S99

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Product Type: DC Axial Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.116 A

Power: 0.58 W

Rated Speed: 14000 RPM

Bearing Type: MagLev Vapo Bearing

Max. Air Flow: 1.5 CFM (2.55 m³/h / 0.04 m³/min)

Max. Static Pressure: 0.20 inH₂O (49.8 Pa / 5.08 mmH₂O)

Dimensions: 20x20x10mm

Weight: 7.8 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 20.0 dBA

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: Lead Wires (UL1571 AWG28)

Ingress Protection: IP5X (Dust Protected)

Motor Protection: Impedance Protected

Safety Certifications: UL, CUR, TUV

The MF20100V2-1D02C-S99 is specifically designed for ultra-compact electronic assemblies where thermal management is critical yet space is at a premium. Common deployment scenarios include cooling chipsets in handheld medical devices, ventilating miniature projectors, and maintaining optimal temperatures in portable GPS units or dashcams. The MF20100V2-1D02C-S99 is also frequently utilized in active cooling solutions for VR headsets and high-performance single-board computers (SBCs) where low noise and high reliability are paramount.

Supplemental Images

