MF20060V3-1Q01C-G99 Sunon 5VDC 20x20x6mm 3-Wire Axial Fan Datasheet

Brand: SUNON

SKU: 644239151589

Category: Axial & Centrifugal Fans

Price: **$13.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/mf20060v3-1q01c-g99-sunon-5vdc-20x20x6mm-3-wire-axial-fan

Product Description

The Sunon MF20060V3-1Q01C-G99 is a precision-engineered micro axial fan designed for applications requiring minimal acoustic signature and compact thermal management. Utilizing Sunon's proprietary MagLev (Magnetic Levitation) technology combined with a Vapo bearing system, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and extending operational lifespan. The 5VDC motor features an optimized aerodynamic blade geometry that balances static pressure with airflow, ensuring efficient heat dissipation in space-constrained environments. Its structural rigidity and ultra-low power consumption of 0.13W make it ideal for sensitive electronic assemblies where thermal impedance must be minimized without compromising energy efficiency.

Model Number: MF20060V3-1Q01C-G99
Brand: Sunon
Product Type: DC Axial Fan
Rated Voltage: 5VDC
Voltage Range: 4.0 - 6.0 VDC
Rated Current: 0.026 A
Power Consumption: 0.13 W
Rated Speed: 10000 RPM
Bearing Type: MagLev Vapo

Max. Air Flow: 0.6 CFM (1.02 m^3/h)
Max. Static Pressure: 0.11 inH_2O (27.4 Pa)
Dimensions: 20 x 20 x 6 mm
Weight: 2.8 g
Life Expectancy: 60,000 Hours @ 40°C
Termination: 3-Wire (Lead Wire)
Signal Output: Frequency Generator (Tachometer)
Noise Level: 16.0 dB(A)
Housing Material: Thermoplastic PBT (UL94V-0)
Blade Material: Thermoplastic PBT (UL94V-0)
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +70 °C
Ingress Protection: IP5X (Dust Protected)
Safety Certifications: UL, CUR, TUV

The MF20060V3-1Q01C-G99 is specifically engineered for ultra-compact electronic devices where internal space is at a premium and noise reduction is critical. Common deployment scenarios include cooling chipsets in handheld mobile devices, miniature projectors, VR/AR headsets, and portable medical diagnostic equipment. The MF20060V3-1Q01C-G99 ensures reliable airflow in these enclosed chassis, preventing thermal throttling in sensitive processors and sensors found in IoT edge devices and compact surveillance systems.