RFA1804 RISUN 5VDC 18x18x4mm Micro Drone Axial Fan Datasheet

Brand: RISUN

SKU: 843709471132

Category: Axial & Centrifugal Fans

Price: **$13.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/rfa1804-risun-5vdc-18x18x4mm-micro-drone-axial-fan

Product Description

The RISUN RFA1804 is a Micro Axial Fan engineered for precision thermal management in ultra-compact electronic assemblies. Utilizing a high-efficiency DC brushless motor architecture, this unit delivers consistent airflow while maintaining minimal thermal impedance within restricted enclosures. The structural rigidity of the 18mm thermoplastic frame ensures stability during operation, making it ideal for sensitive instrumentation where vibration must be minimized. Its aerodynamic blade design optimizes static pressure delivery, effectively dissipating heat from microchips and sensors where spatial constraints are critical. The fan features a specialized bearing system designed to prolong operational life in miniature form factors.

Model Number: RFA1804
Brand: RISUN
Product Type: Micro Axial Fan
Rated Voltage: 5 VDC
Voltage Range: 4.5 - 5.5 VDC
Rated Current: 0.08 A
Power Consumption: 0.40 W
Rated Speed: 12000 RPM
Bearing Type: Sleeve / Hydraulic
Max. Air Flow: 0.70 CFM (1.19 m^3/h / 0.02 m^3/min)

Max. Static Pressure: 2.00 mmH_2O (19.61 Pa / 0.08 inH_2O)
Dimensions: 18 x 18 x 4 mm
Weight: 2.5 g
Life Expectancy: 30,000 Hours at 25°C
Noise Level: 22.0 dB(A)
Housing Material: Thermoplastic PBT (UL94V-0)
Impeller Material: Thermoplastic PBT (UL94V-0)
Termination: Lead Wires (UL1571 AWG32)
Operating Temperature: -10°C to +60°C
Storage Temperature: -40°C to +70°C
Motor Protection: Impedance Protected
Polarity Protection: Reverse Polarity Protected
Mounting Orientation: Any

This miniature cooling solution is specifically calibrated for integration into portable and handheld devices. The RFA1804 is frequently deployed in PM2.5 air quality detection instruments, ensuring accurate sensor readings by maintaining optimal operating temperatures. Additionally, the RFA1804 serves as a critical component in micro-drone avionics cooling and chipset thermal regulation, where weight and size are paramount constraints. Its compact footprint allows for seamless installation in medical handhelds, smart wearables, and compact IoT sensor nodes requiring active air circulation.

Supplemental Images