F310R-12LC Copal 12VDC 30x30x10mm Low Noise Axial Fan Datasheet

SKU: 766332682905

Category: Axial & Centrifugal Fans

Price: **$21.99**

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Product Page:
https://www.equipspares.com/product/f310r-12lc-copal-12vdc-30x30x10mm-low-noise-axial-fan

Product Description

The Copal F310R-12LC is a precision-engineered micro-axial fan designed for high-density electronic cooling applications where space constraints are critical. Manufactured by Nidec Copal Electronics, this unit leverages advanced DC brushless motor technology to deliver consistent airflow with minimal acoustic resonance. The 30mm frame integrates a specialized impeller geometry that optimizes the pressure-to-flow ratio, ensuring effective thermal impedance reduction over localized heat sources such as microchips and embedded processors. Constructed with durable thermoplastic housing, the fan maintains structural rigidity under thermal stress, providing reliable long-term operation in compact industrial and consumer electronic environments.

Model Number: F310R-12LC
Brand: Copal Electronics
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.06 A
Power Consumption: 0.72 W
Rated Speed: 8500 RPM
Bearing Type: Sleeve Bearing
Max. Air Flow: 3.2 CFM (5.4 m^3/h / 0.09 m^3/min)

Max. Static Pressure: 2.8 mmH_2O (27.4 Pa / 0.11 inH_2O)
Dimensions: 30x30x10mm
Weight: 8.0 g
Life Expectancy: 30,000 Hours @ 40°C
Noise Level: 23.0 dB(A)
Termination: 2-Wire Lead
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Operating Temperature: -10°C to +60°C
Storage Temperature: -30°C to +70°C
Direction of Rotation: Counter-clockwise
Mounting Orientation: Any

The F310R-12LC is specifically engineered for thermal management in compact electronic assemblies requiring active cooling without significant noise intrusion. Common deployment scenarios include cooling dedicated chipsets in DVR systems, embedded microcontrollers, and portable medical instrumentation. The compact footprint of the F310R-12LC allows for seamless integration into tight enclosures found in telecommunications equipment and small-scale CNC control modules. By maintaining optimal operating temperatures, this fan ensures the longevity and stability of sensitive semiconductor components.

Supplemental Images