QFR0812SH-HZR Delta 12VDC 80x80x25mm 52.83CFM Axial Fan Datasheet

Brand: Delta

SKU: QFR0812SH-HZR

Category: Industrial Fans

Price: **$18.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/qfr0812sh-hzr-delta-12vdc-80x80x25mm-52-83cfm-axial-fan

Product Description

The Delta QFR0812SH-HZR is a DC Axial Fan engineered for critical thermal management in high-density electronic environments. Featuring a robust Dual Ball Bearing architecture, this unit ensures long-term operational stability and reduced frictional coefficients under continuous load. The aerodynamic impeller design optimizes airflow efficiency to 52.83 CFM while maintaining structural rigidity against back-pressure. Designed with a 4-wire interface, it supports precise Pulse Width Modulation (PWM) speed control, allowing for dynamic thermal regulation based on system impedance and heat dissipation requirements.

Model Number: QFR0812SH-HZR
Brand: Delta Electronics
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.8 VDC
Rated Current: 0.50 A
Input Power: 6.00 W
Rated Speed: 4500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 52.83 CFM (89.76 m^3/h / 1.49 m^3/min)
Max. Static Pressure: 9.81 mmH_2O (96.24 Pa / 0.39 inH_2O)

Dimensions: 80x80x25mm
Weight: 115 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 43.0 dB-A
Speed Control: PWM (Pulse Width Modulation)
Signal Output: Tachometer (Frequency Generator)
Termination: 4-Wire with FAN2 Connector
Housing Material: Plastic (UL 94V-0)
Impeller Material: Plastic (UL 94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP50 (Standard)
Safety Certifications: UL, cUL, TUV, CE
Protection: Locked Rotor Protection, Polarity Protection

The QFR0812SH-HZR is specifically calibrated for deployment in enterprise-grade server racks and industrial automation enclosures where consistent airflow is paramount. Its high static pressure capabilities make it ideal for forcing air through dense component arrays found in telecommunications equipment and power supply units. Additionally, the QFR0812SH-HZR serves as a reliable cooling solution for CNC machinery and precision medical devices, ensuring thermal stability during intensive processing cycles.

Supplemental Images