

HDH0412LG HXH 12VDC 40x40x10mm Low Noise Axial Fan Datasheet



Brand: HXH

SKU: 1006269107120

Category: Axial & Centrifugal Fans

Price: \$8.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/hdh0412lg-hxh-12vdc-40x40x10mm-low-noise-axial-fan>

Product Description

The HXH HDH0412LG is a precision-engineered DC axial fan designed for applications requiring minimal acoustic interference and reliable thermal management. Utilizing an advanced brushless DC motor architecture, this unit optimizes airflow efficiency while maintaining a low power consumption profile of just 0.07A. The 40mm frame is constructed to ensure structural rigidity, reducing vibration-induced noise and enhancing mechanical stability. Its aerodynamic blade design minimizes turbulence, thereby lowering the overall thermal impedance of the target system. This compact cooling solution is ideal for space-constrained electronic assemblies where maintaining operational temperatures is critical for component longevity and system stability.

Model Number: HDH0412LG

Brand: HXH

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.07 A

Power Consumption: 0.84 W

Rated Speed: 4500 RPM \pm 10%

Bearing Type: Sleeve Bearing

Max. Air Flow: 4.85 CFM (8.24 m³/h / 0.13 m³/min)

Max. Static Pressure: 2.54 mmH₂O (24.91 Pa / 0.10 inH₂O)

Dimensions: 40x40x10mm

Weight: 14.0 g

Life Expectancy: 30,000 Hours at 25°C

Noise Level: 22.5 dBA

Speed Control: Constant Speed

Ingress Protection: IP20

Insulation Class: Class A

Housing Material: PBT Thermoplastic (UL94V-0)

Blade Material: PBT Thermoplastic (UL94V-0)

Termination: 2-Wire Lead (Red +, Black -)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Certifications: CE, RoHS

The HDH0412LG is engineered for integration into compact electronic enclosures where space is at a premium and acoustic neutrality is required. Common deployment scenarios include chipset cooling in embedded systems, DVR/NVR cooling solutions, and small-scale telecommunications equipment. The HDH0412LG effectively manages heat dissipation in network switches, 3D printer hotends, and portable medical instrumentation, ensuring reliable operation without contributing significant noise to the environment.

Supplemental Images

