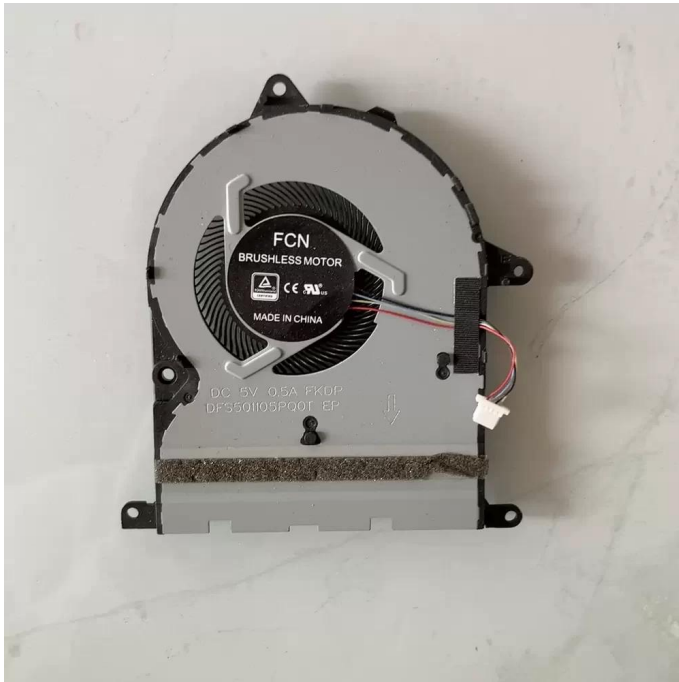


DFS501105PQ0T FCN 5VDC 50mm Laptop Replacement Fan Datasheet



Brand: FCN

SKU: [759425239267](#)

Category: Axial & Centrifugal Fans

Price: **\$23.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/dfs501105pq0t-fcn-5vdc-50mm-laptop-replacement-fan>

Product Description

FCN DFS501105PQ0T is a 5VDC 50mm Laptop Replacement Fan optimized for high-density thermal management in ultra-portable workstation environments. This unit features a sophisticated brushless DC motor architecture paired with a high-precision bearing system to minimize thermal impedance while maintaining structural rigidity under high-speed operation. Designed specifically for the ASUS P5440 series, the fan utilizes a 4-wire PWM interface for granular speed control, allowing the system to modulate cooling based on real-time CPU/GPU load. Operating at a rated current of 0.5A and delivering a power output of 2.5W, this centrifugal blower is engineered to overcome the high internal static pressure typical of slim chassis designs.

Model Number: DFS501105PQ0T

Brand: FCN

Product Type: Centrifugal Laptop Cooling Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.5A

Power: 2.5W

Rated Speed: 4500 RPM

Bearing Type: Fluid Dynamic Bearing

Max. Air Flow: 4.85 CFM

Max. Static Pressure: 5.20 mmH₂O

Dimensions: 50mm x 50mm x 11mm

Weight: 25g

Life Expectancy: 40,000 Hours at 40C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Pin Connector

Wiring: Red (VCC), Black (GND), Yellow (FG), Blue (PWM)

Housing Material: UL94V-0 Reinforced Plastic

Blade Material: UL94V-0 PBT

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +75C

Protection Features: Locked Rotor Protection, Auto Restart, Reverse Polarity Protection

Compatibility: ASUS P5440, P5440UF, P5440UF8550

Part Number: 13N1-47P0101

DFS501105PQ0T Applications

1. ASUS P5440 Series Thermal Repair: Direct replacement fan engineered to match the specific aerodynamic curves and mounting points of the P5440UF chassis to resolve thermal throttling.
2. Ultra-Slim Laptop Maintenance: Ideal for overcoming high system impedance in 13-14 inch professional notebooks where space-constrained heat pipe assemblies require high static pressure blowers.
3. Embedded Compact Computing: Suitable for low-profile industrial NUCs requiring 5VDC active cooling with PWM feedback for precise acoustic management.

Supplemental Images

