

9CRV0412P5J221 Sanyo 12VDC 40x40x56mm Counter Rotating Fan Datasheet



Brand: Sanyo Denki

SKU: [941055880942](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

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

Product Page:

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Product Description

The Sanyo 9CRV0412P5J221 is a high-performance Counter Rotating Axial Fan designed to overcome significant system impedance in dense electronic enclosures. This unit features a sophisticated dual-motor architecture within a compact 40x56mm chassis, employing contra-rotating impellers to rectify airflow vectors and maximize static pressure generation. Engineered with precision dual ball bearings, the fan offers superior structural rigidity and extended service life under continuous operation. The aerodynamic design minimizes flow separation, effectively reducing thermal impedance in high-load environments. With an 8-wire PWM interface, it provides granular speed control, allowing for dynamic adjustment of cooling performance relative to thermal demand.

Model Number: 9CRV0412P5J221

Brand: Sanyo Denki (San Ace)

Product Type: Counter Rotating Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 1.80 A

Power Consumption: 21.6 W

Rated Speed: 16500 RPM (Inlet) / 13000 RPM (Outlet)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 32.5 CFM (55.2 m³/h / 0.92 m³/min)

Max. Static Pressure: 88.9 mmH₂O (871 Pa / 3.50 inH₂O)

Dimensions: 40x40x56mm

Weight: 85 g

Life Expectancy: 40,000 Hours at 60°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer Sensor (FG)

Termination: 8-Wire Lead

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -30°C to +70°C

Ingress Protection: IP40

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

The 9CRV0412P5J221 is specifically engineered for applications with high component density, such as 1U server racks and telecommunications switching gear, where standard axial fans fail to overcome back-pressure. Its robust pressure capabilities make it ideal for cooling CPU heatsinks in blade servers and power supply units in industrial automation systems. Additionally, the 9CRV0412P5J221 serves as a critical thermal solution in medical diagnostic equipment and CNC machinery, ensuring reliable heat dissipation for sensitive electronics in constrained spaces.

Supplemental Images

