

# KDE1209PTBX.13.MS.(2).B1930.AR.GN Sunon 12V DC Axial Fan

**SKU:** KDE1209PTBX.13.MS.(2).B1930.AR.GN

**Price:** \$13.99

**Categories:** Fans

**Tags:** SUNON

**Product Link:**

<https://www.electspares.com/product/kde1209ptbx-13-ms-2-b1930-ar-gn-sunon-12v-dc-axial-fan/>

---

## Product Description

---

The Sunon KDE1209PTBX.13.MS.(2).B1930.AR.GN is a high-performance DC Axial Fan with dimensions of 92 x 92 x 25 mm. Operating on 12 V DC with a rated power of 3.2 W, this fan belongs to the premium MS (MagLev System) series, utilizing Sunon's patented magnetic levitation technology for enhanced motor stability and reduced vibration. Featuring a 7-blade impeller and a robust 4-pole Brushless DC Motor, it is equipped with a 3-wire interface for integrated speed monitoring. It provides a reliable thermal solution for server enclosures, industrial power supplies, and telecommunications equipment requiring precise cooling control and long-term durability.

KDE1209PTBX.13.MS.(2).B1930.AR.GN Fan Parameters

Model: KDE1209PTBX.13.MS.(2).B1930.AR.GN

Manufacturer: Sunon

Type: DC Axial Fan

Series: KDE Series (MS/MagLev Design)

Dimensions: 92 x 92 x 25 mm

Nominal Voltage: 12 V DC

Operating Voltage Range: 6.0 V DC to 13.8 V DC

Starting Voltage: 6.0 V DC

Rated Current: 0.26 A

Rated Input Power: 3.2 W

Number of Blades: 7

Motor Design: Brushless DC Motor

Motor Architecture: MS (MagLev System) for vibration reduction

Rated Speed: 4100 RPM

Max. Airflow: 127.5 m<sup>3</sup>/h (75.0 CFM)

Max. Static Pressure: 87 Pa (0.35 inH<sub>2</sub>O)

Noise Level: 45.0 dB(A)

Bearing Type: Dual Ball Bearing

Insulation Class: Class A (105 °C)

Insulation Resistance: 10M ohm at 500 VDC between internal stator and lead wire (+)

Dielectric Strength: 500 VAC for one minute or 600 VAC for 2 seconds

Electrical Protection: Auto Restart (AR), Polarity Protection, Locked Rotor Protection

Termination: 3 Wire Leads (UL1007, AWG 24)

Wire Definition: Red (+), Black (-), Yellow (Sensor/Tacho)

Sensor Type: Tachometer (Speed Sensor)

Frame Material: Thermoplastic PBT (UL 94V-0)

Impeller Material: Thermoplastic PBT (UL 94V-0)

Life Expectancy: 70,000 h (at 40 °C)

Operating Temperature Range: -10 °C to +70 °C

Storage Temperature Range: -40 °C to +70 °C

Certifications: CE, TUV, UL/cUL, RoHS Compliant (GN)

#### Application

The Sunon KDE1209PTBX.13.MS.(2).B1930.AR.GN is engineered for 24/7 mission-critical applications that demand high airflow density and motor longevity. The MS (MagLev System) design significantly reduces internal friction and mechanical vibration, which is essential for medical diagnostic devices and high-precision laboratory equipment. Its high 4100 RPM speed allows it to overcome significant airflow resistance, making it ideal for cooling high-density server racks and industrial power converters. The 3-wire tachometer output provides critical real-time speed feedback, while the "Auto Restart" function ensures the fan autonomously attempts to spin up after any temporary mechanical blockage, preventing thermal runaway in unmonitored systems.

## Product Images

---









---

Scan for product details:

