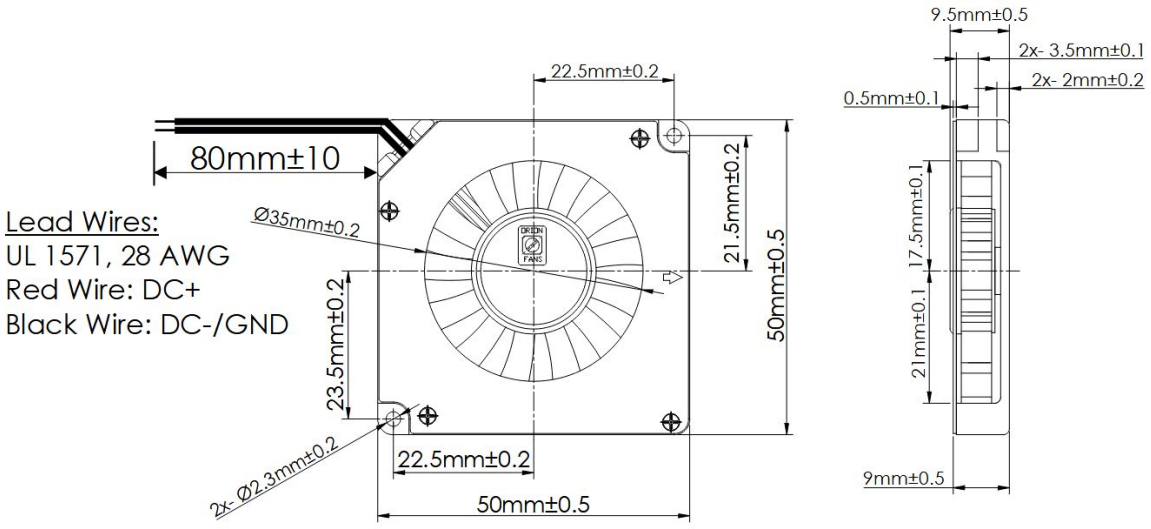
ODB5009 Series

DC Blowers - 5, 12V
50mm x 50mm x 9mm
(1.97” x 1.97” x 0.35”)





Housing Frame	Aluminum Alloy
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Wire Leads, UL 1571 28 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

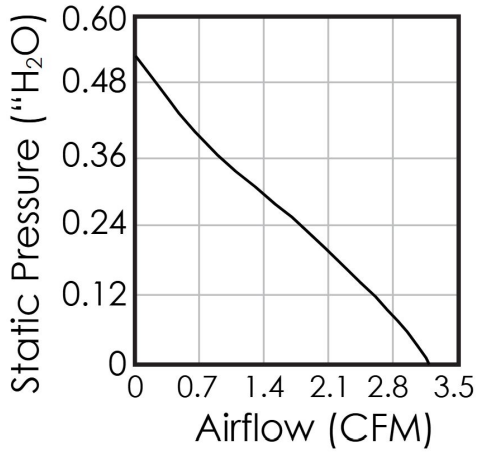
Operating Temperature
-10°C ~ +70°C

Storage Temperature
-40°C ~ +70°C

Life Expectancy
70,000 Hours (L10 at 40°C)

Available Options
PWM Speed Control Input
Open Collector Tach Output
Alarm Output
Other Speeds and Voltages
IP Ratings

Weight: 0.06 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
ODB5009-05HB	5	4.5 ~ 5.5	1.5	0.30	6000	3.2	40.7	0.53
ODB5009-12HB	12	11 ~ 13.8	1.8	0.15	6000	3.2	40.7	0.53

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 4/30/2026
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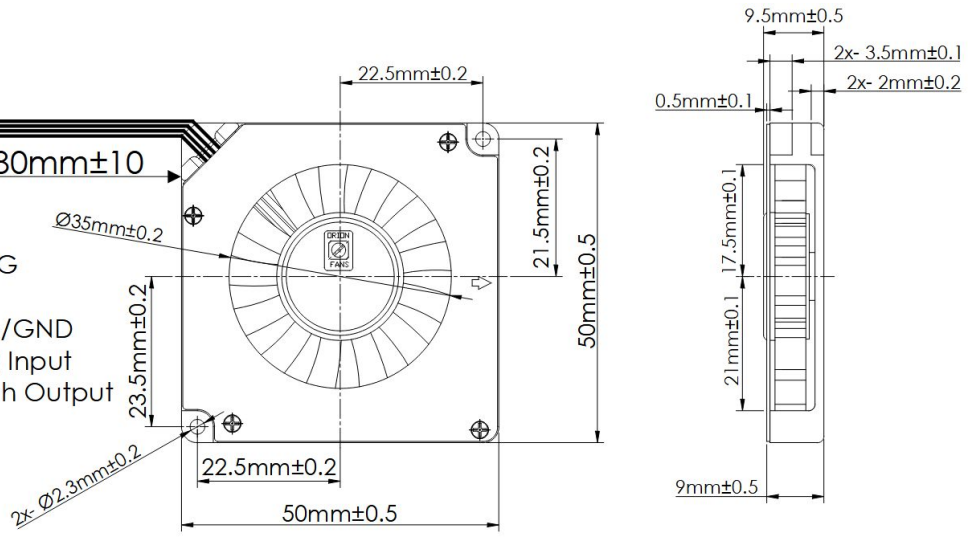
Orion Fans
Information and data is subject to change without prior notification

ODB5009 Series
with PWM and Tach

DC Blowers - 5, 12V
50mm x 50mm x 9mm
(1.97” x 1.97” x 0.35”)



Lead Wires:
UL 1571, 28 AWG
Red Wire: DC+
Black Wire: DC-/GND
Blue Wire: PWM Input
White Wire: Tach Output



Housing Frame	Aluminum Alloy
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Wire Leads, UL 1571 28 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500 VDC

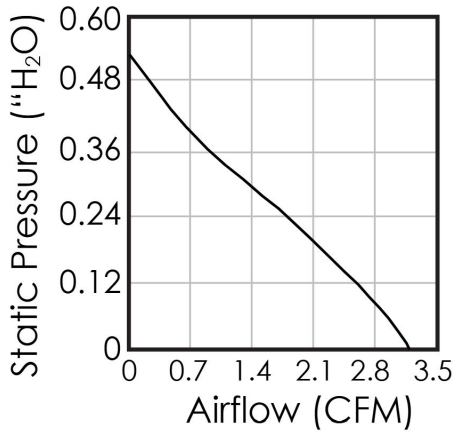
Operating Temperature
-10°C ~ +70°C

Storage Temperature
-40°C ~ +70°C

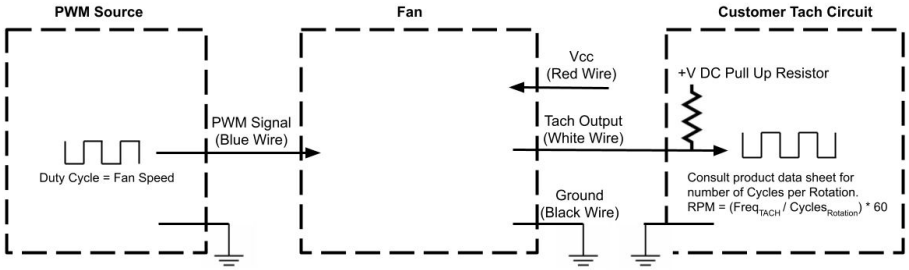
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
PWM Speed Control Input
Open Collector Tach Output

Weight: 0.06 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(Max)	Rated Current (Amps)(Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
ODB5009-05HB10A	5	4.5 ~ 5.5	1.5	0.30	6000	3.2	40.7	0.53
ODB5009-12HB10A	12	11 ~ 13.8	1.8	0.15	6000	3.2	40.7	0.53



PWM Max High Voltage: 5V
PWM Frequency Range: 18KHz-30KHz
PWM Startup Duty Cycle: ≥25%
PWM Max Sink Current: 5mA
PWM Typical Frequency: 25KHz
RPM at 0% Duty Cycle: 0 RPM
RPM will be full speed if PWM input is disconnected.

Tach Max Pullup Voltage: 5V
Tach Cycles per Rotation: 2
Tach Max Sink Current: 5mA

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Revised 4/30/2026
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Orion Fans
Information and data is subject to change without prior notification