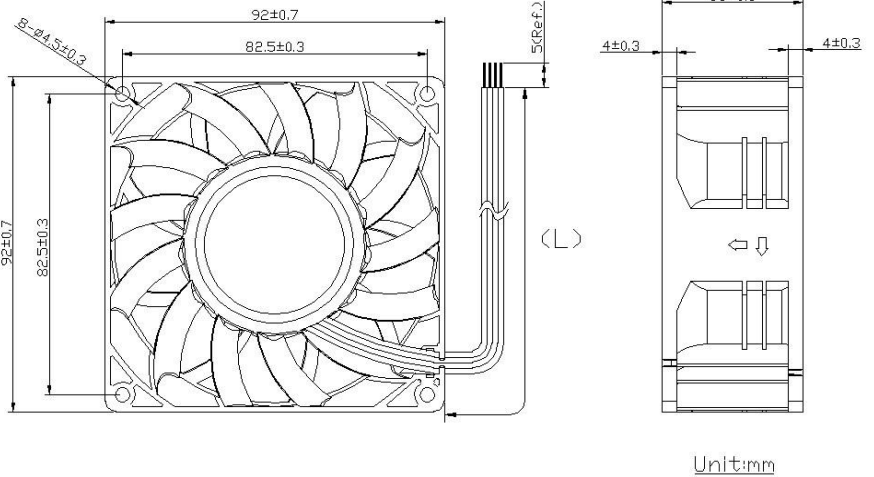


# OD9238 Series - High Speed



DC Fan - 12V, Tachometer, PWM  
92x38mm (3.62" x 1.5")



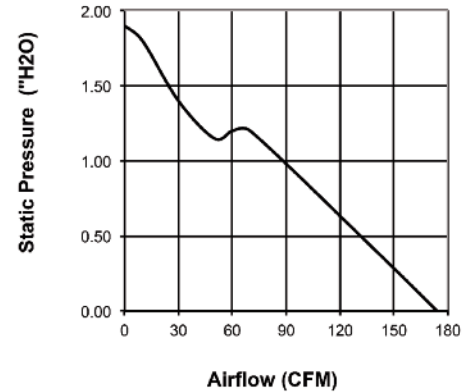
Frame & Impeller	PBT, UL94V-O plastic
Connection	4x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500VAC / 1 second, max leakage 500 microamp
Temperature Range	-20C ~ +70C
Storage Temperature	-40C ~ +80C
Life Expectancy	50000 hours (40C)

### Available Options:

\* Connection:  
Red (+)  
Black (-)  
White - Tachometer  
Open Collector  
Blue - PWM

UL 1430, 24AWG  
~300mm

Weight: ~ 255 g



Part Number	OD9238-12HHBXC10A
Nominal Voltage	12 VDC
Nominal Current	3.5 A
Real Power	42 W
Rated Speed (RPM)	8000
Airflow (CFM)	174
Noise Level (dB)	68
Max. Static Pressure	1.7" H <sub>2</sub> O

**PWM Duty Cycle**    0%                    40%                    70%                    100%

**Ref. Speed (RPM)**    0                    3200 ± 15%                    5600 ± 12%                    8000 ± 10%

High signal : 5.5VDC Max.  
2.8VDC Min.

Low signal : 0.5VDC Max.  
0VDC Min.

Duty Cycle = (t/T) \* 100%

11.1 The preferred operating frequency for the fan is 25kHz.  
11.2 PWM signal frequency range from 18kHz-30kHz.  
11.3 At 100% duty cycle, the fan will operate at maximum speed.  
11.4 At 0% duty cycle, the fan is not rotate.  
11.5 The fan will default to operate at maximum speed when the speed control input is left connected.  
11.6 At 25kHz with 20% duty cycle (Vcc = 24VDC), the fan will be able to start from a dead stop.

