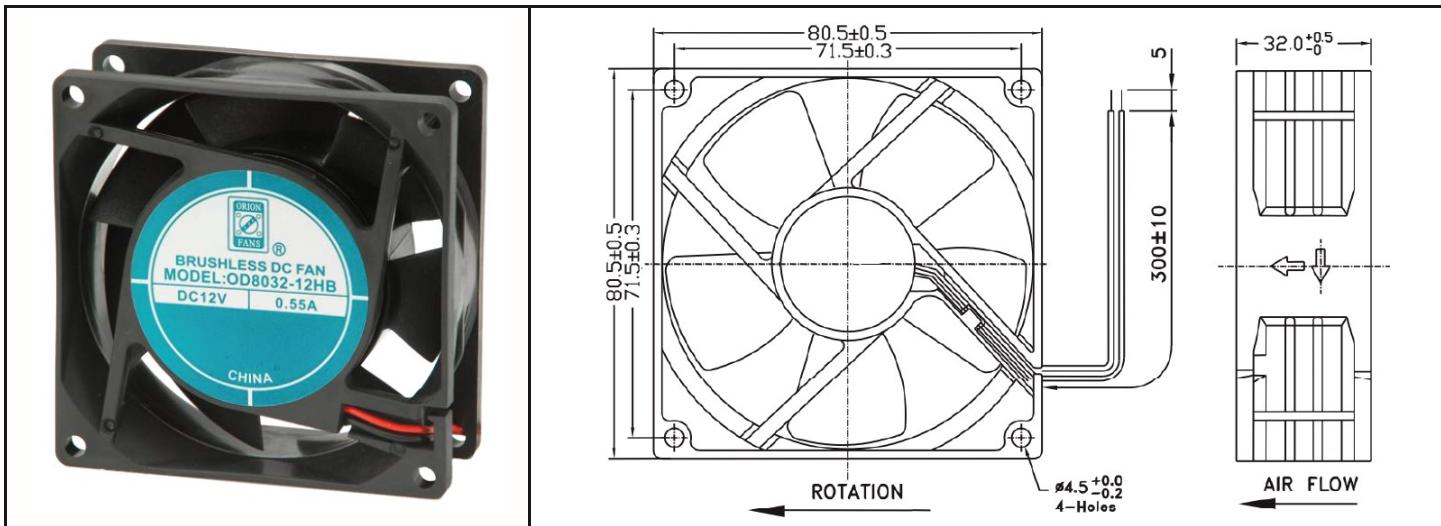


# OD8032 Series



DC Fan - 12, 24, 48V  
80x32mm (3.15"x 1.25")



Frame	PBT, UL94V-0 plastic	Available Options	
Impeller	PBT, UL94V-0 plastic	Tachometer (FG) Alarm (RD) Thermal Speed Control (Thermistor) PWM Input (Manual Speed Control)	
Connection	2x Lead wires (24AWG)	<u>Operating Temperature</u> Ball: -20C ~ +70C Sleeve: 10C ~ +50C Bearing	
Motor	Brushless DC, auto restart, polarity protected	<u>Storage Temp</u> -40C ~ +80C	
Bearing System	Dual ball or Sleeve	<u>Life Expectancy (L10)</u> Ball: 70,000 hours (40C) Sleeve: 35,000 hours (40C)	
Insulation Resistance	>100M ohm between lead-wire and frame (500VDC)	Weight: ~ 0.24 lbs. m1	
Dielectric Strength	1 min at 1500 VAC, 50/60Hz		

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Real Current (Amps)	Max. Static Pressure ("H <sub>2</sub> O)
OD8032-12H*	3800	49.8	41.0	12	10.8~13.2	0.19	.28
OD8032-12M*	3400	44.8	36.7	12	10.8~13.2	0.16	.24
OD8032-12L*	3000	40.0	35.0	12	10.8~13.2	0.11	.19
OD8032-24H*	3800	49.8	41.8	24	21.6~26.4	0.12	.28
OD8032-24M*	3400	44.8	36.7	24	21.6~26.4	0.10	.24
OD8032-24L*	3000	39.6	35.5	24	21.6~26.4	0.07	.19
OD8032-48H*	3800	50.0	42.0	48	24~56	0.07	.28
OD8032-48L*	3000	39.6	35.5	48	24~56	0.06	.19

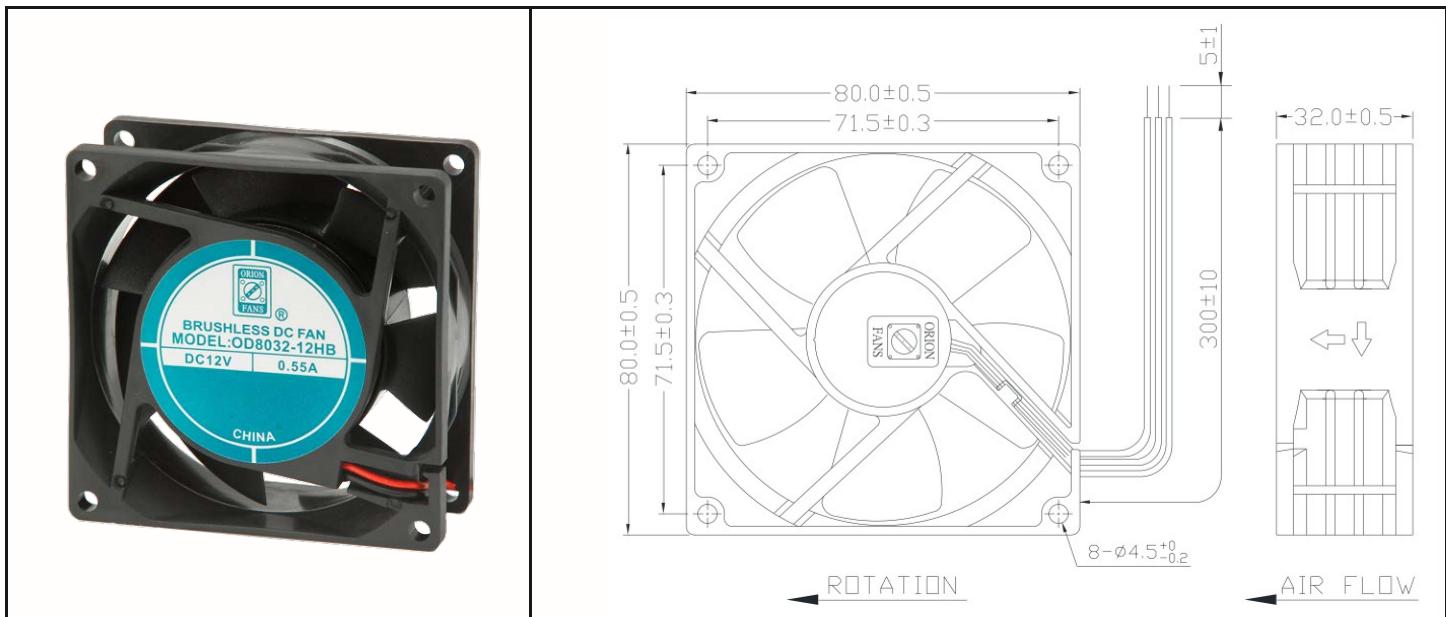
\* Indicate "B" (Ball Bearing), "S" (Sleeve Bearing)

OD8032-12HHB02A



DC Fan, 12VDC

80x32mm (3.15x1.25in)



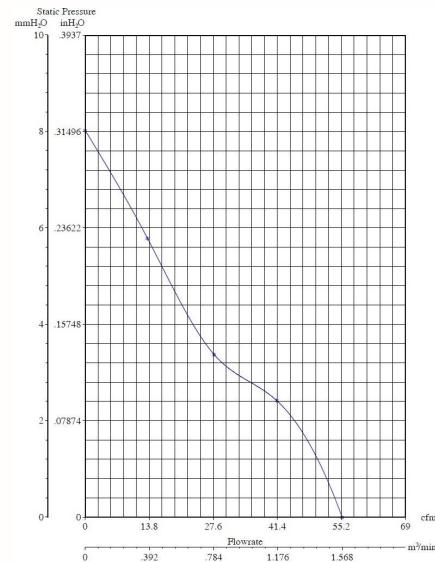
Frame & Impeller	PBT, UL94V-0 plastic
Connection	3x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 second at 500VAC max leakage 500 microamp
Temperature Range	-10C ~ +70C
Storage Temperature	-40C ~ +80C
Life (L10)	70,000 hours (40C)

#### Available Options

IP55  
Other speeds and voltages  
Tachometer  
PWM

\*Connection:  
Wire Leads - UL1007  
24AWG Red(+), Black (-), Yellow Alarm

Weight: 108 g



Model Number	OD8032-12HHB02A	Output of locked signal *Output type.....Open collector type *Electrical design suggestion: (External signal function design is decided by customer)
Part Number	184151231	
Nominal Voltage	12 VDC	
Voltage Range	7~13.2 VDC	
Nominal Current	.23 A	*Transistor Q1 at "ON" position Collector current.....I <sub>C</sub> =5mA Max Saturation Voltage.....V <sub>CE</sub> =1.0V Max (Between Collector and Emitter at I <sub>C</sub> =5mA)
Rated Power	4.56 Watts	*Transistor Q1 at "OFF" position Release Voltage.....V <sub>ON</sub> =15V Max
Rated Speed (RPM)	4200	*Output waveform
Airflow (CFM)	55.5	Supply voltage
Noise Level (dB)	44	Fan rotation
Max. Static Pressure	.32 "H <sub>2</sub> O	Fan current
		Locked signal

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10557 Metric Drive  
Dallas, Texas 75243  
214-340-0265



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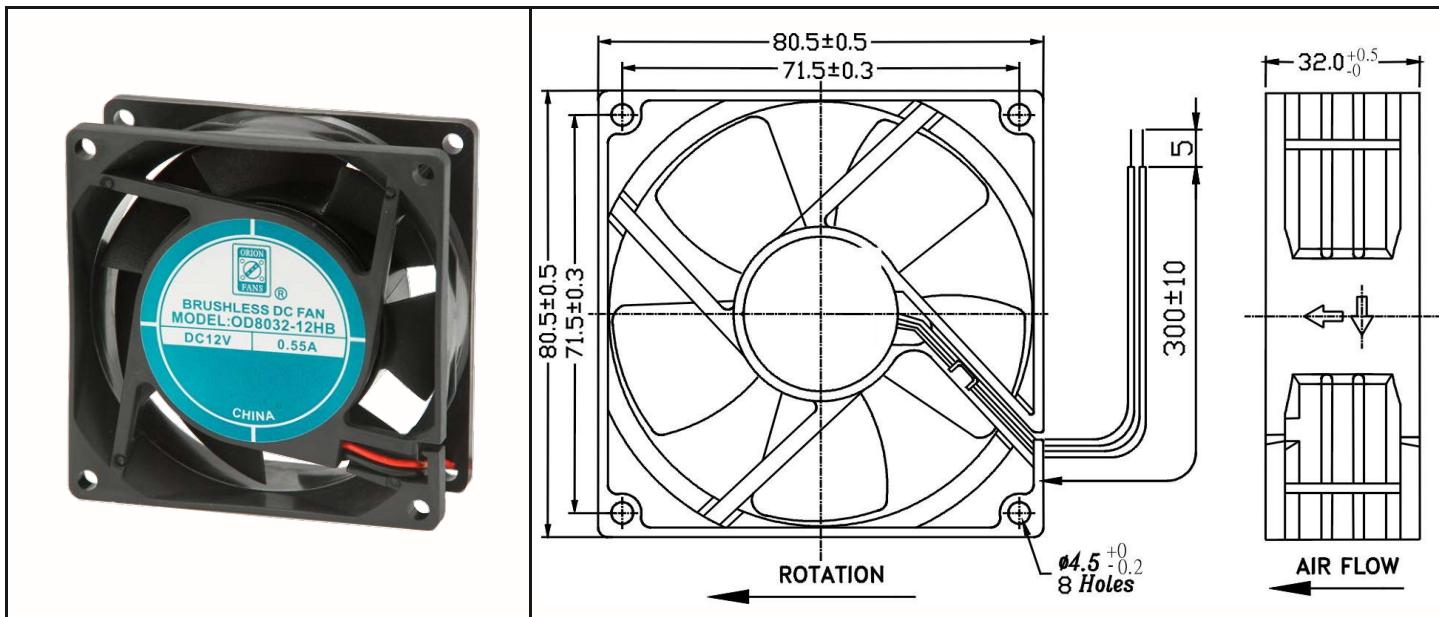
Orion Fans  
Information and data is subject to change without prior notification.

OD8032-24HHB



DC Fan, 24VDC

80x32mm (3.15x1.25in)



Frame & Impeller	PBT, UL94V-0 plastic	Available Options IP55 Other speeds and voltages Tachometer PWM Alarm *Connection: Wire Leads - UL1007 24AWG Red(+), Black (-), Weight: 108 g	<table border="1"> <caption>Graph Data for OD8032-24HHB Fan</caption> <thead> <tr> <th>Flowrate (m³/min)</th> <th>Static Pressure (mmH₂O)</th> </tr> </thead> <tbody> <tr><td>0</td><td>3.937</td></tr> <tr><td>0.392</td><td>3.1496</td></tr> <tr><td>0.784</td><td>2.3622</td></tr> <tr><td>1.176</td><td>1.5748</td></tr> <tr><td>1.568</td><td>0.7871</td></tr> <tr><td>1.960</td><td>0.0000</td></tr> </tbody> </table>	Flowrate (m³/min)	Static Pressure (mmH₂O)	0	3.937	0.392	3.1496	0.784	2.3622	1.176	1.5748	1.568	0.7871	1.960	0.0000
Flowrate (m³/min)	Static Pressure (mmH₂O)																
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0.784	2.3622																
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1.568	0.7871																
1.960	0.0000																
Connection	2x Lead wires *																
Motor	Brushless DC, auto restart, polarity protected.																
Bearing System	Dual ball bearing																
Insulation Resistance	Min. 10M at 500VDC																
Dielectric Strength	1 second at 500VAC max leakage 500 microamp																
Temperature Range	-10C ~ +70C																
Storage Temperature	-40C ~ +80C																
Life (L10)	70,000 hours (40C)																

Model Number	OD8032-24HHB
Part Number	184251001
Nominal Voltage	24 VDC
Voltage Range	17~26.4 VDC
Nominal Current	.15 A
Rated Power	4.32 Watts
Rated Speed (RPM)	4200
Airflow (CFM)	55.5
Noise Level (dB)	44
Max. Static Pressure	.32 "H₂O

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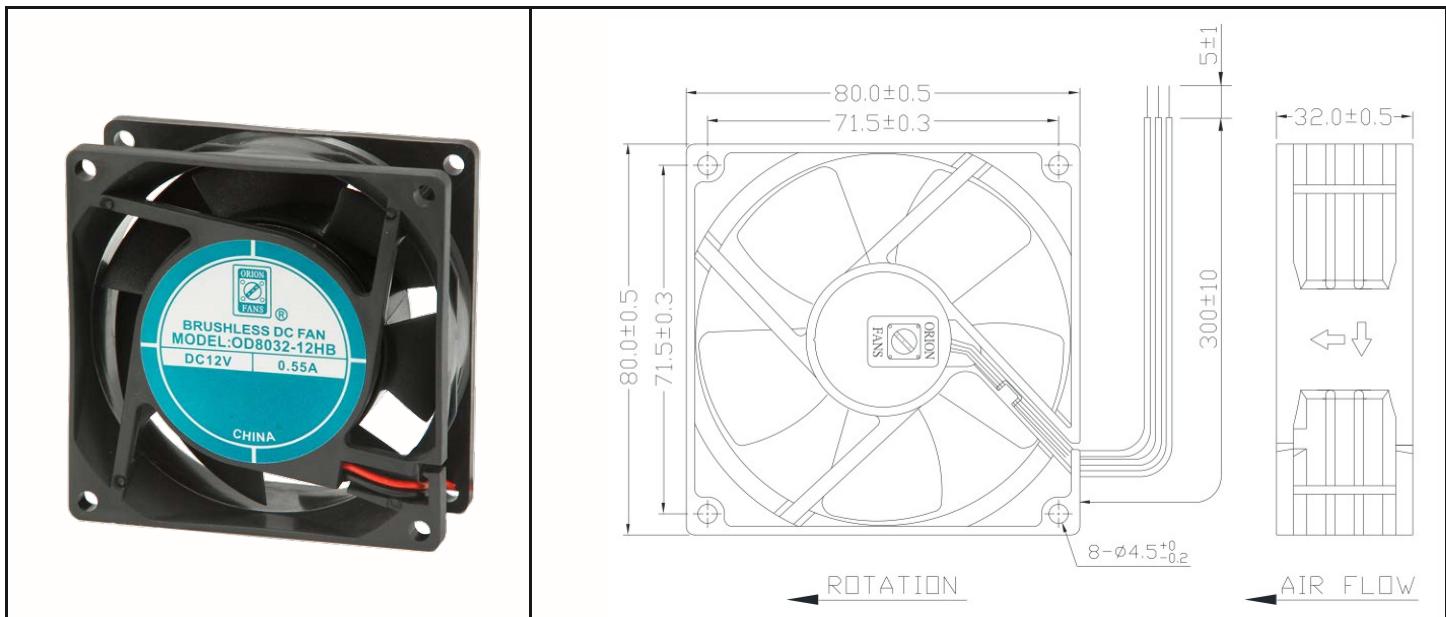
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Information and data is subject to change without prior notification.

OD8032-24HHB02A



DC Fan, 24VDC

80x32mm (3.15x1.25in)



Frame & Impeller	PBT, UL94V-0 plastic	<p><u>Available Options</u></p> <p>IP55 Other speeds and voltages Tachometer PWM</p> <p>*Connection: Wire Leads - UL1007 24AWG Red(+), Black (-), Yellow Alarm</p> <p>Weight: 108 g</p>	
Connection	3x Lead wires *		
Motor	Brushless DC, auto restart, polarity protected.		
Bearing System	Dual ball bearing		
Insulation Resistance	Min. 10M at 500VDC		
Dielectric Strength	1 second at 500VAC max leakage 500 microamp		
Temperature Range	-10C ~ +70C		
Storage Temperature	-40C ~ +80C		
Life (L10)	70,000 hours (40C)		

Model Number	OD8032-24HHB02A	<p>Output of locked signal *Output type.....Open collector type *Electrical design suggestion: (External signal function design is decided by customer)</p> <p><b>CUSTOMER'S CIRCUIT</b></p> <p>*Transistor Q1 at "ON" position Collector current.....Ic=10mA Max Saturation Voltage.....Vs=1.0V Max (Between Collector and Emitter at Ic=10mA) *Transistor Q1 at "OFF" position Release Voltage.....Vs=30V Max</p> <p>*Output waveform</p> <p>Supply voltage</p> <p>Fan rotation</p> <p>Fan current</p> <p>Locked signal</p>
Part Number	184251231	
Nominal Voltage	24 VDC	
Voltage Range	17~26.4 VDC	
Nominal Current	.15 A	
Rated Power	4.32 Watts	
Rated Speed (RPM)	4200	
Airflow (CFM)	55.5	
Noise Level (dB)	44	
Max. Static Pressure	.32 "H <sub>2</sub> O	

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