



## OD8032 Series

DC Fan - 12V, 24V, 48V  
80 x 32mm (3.15 x 1.25in)



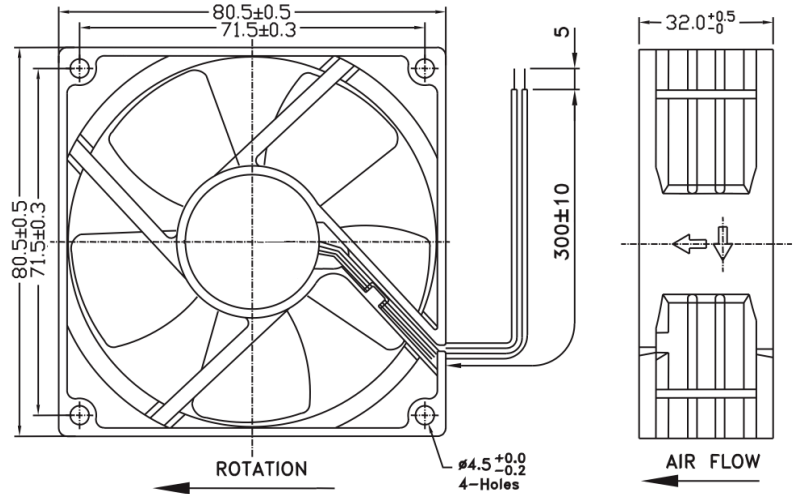
| Model #         | Pg # | Voltage | RPM  | CFM  | Noise Level | Max Static Pressure  |
|-----------------|------|---------|------|------|-------------|----------------------|
| OD8032-12H      | 2    | 12 VDC  | 3800 | 50   | 40 dB       | .43 H <sub>2</sub> O |
| OD8032-12M      | 2    | 12 VDC  | 3400 | 44   | 36 dB       | .28 H <sub>2</sub> O |
| OD8032-12L      | 2    | 12 VDC  | 3000 | 40   | 31 dB       | .20 H <sub>2</sub> O |
| OD8032-24H      | 2    | 24 VDC  | 3800 | 50   | 40 dB       | .43 H <sub>2</sub> O |
| OD8032-24M      | 2    | 24 VDC  | 3400 | 44   | 36 dB       | .28 H <sub>2</sub> O |
| OD8032-24L      | 2    | 24 VDC  | 3000 | 40   | 31 dB       | .20 H <sub>2</sub> O |
| OD8032-48H      | 2    | 48 VDC  | 3800 | 50   | 40 dB       | .43 H <sub>2</sub> O |
| OD8032-48M      | 2    | 48 VDC  | 3400 | 44   | 36 dB       | .28 H <sub>2</sub> O |
| OD8032-48L      | 2    | 48 VDC  | 3000 | 40   | 31 dB       | .20 H <sub>2</sub> O |
| OD8032-12HHB02A | 3    | 12 VDC  | 4200 | 55.5 | 44 dB       | .32 H <sub>2</sub> O |
| OD8032-24HHB    | 4    | 24 VDC  | 4200 | 55.5 | 44 dB       | .32 H <sub>2</sub> O |
| OD8032-24HHB02A | 5    | 24 VDC  | 4200 | 55.5 | 44 dB       | .32 H <sub>2</sub> O |

**\*\* For some models and part numbers, minimum order quantities may apply.**

# OD8032 Series



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



|                       |                                                 |                                                                                                                                                                                                                                                                                                                                                    |  |
|-----------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-O plastic                            | <b>Available Options:</b><br>Tachometer (FG)<br>Alarm (RD)<br>Thermal Speed Control (Thermistor)<br>PWM Input (Manual Speed Control)<br>Life Expectancy (L10)<br>Ball Bearing<br>70,000 hours (L10 at 40C)<br>Sleeve Bearing<br>35,000 hours (L10 at 40C)<br>Operating Temperature<br>Ball Bearing<br>-20C ~ +70C<br>Sleeve Bearing<br>-10C ~ +50C |  |
| Connection            | 2x Lead wires, UL1007, 24AWG                    |                                                                                                                                                                                                                                                                                                                                                    |  |
| Motor                 | Brushless DC, auto restart, polarity protected  |                                                                                                                                                                                                                                                                                                                                                    |  |
| Bearing System        | Dual Ball or Sleeve                             |                                                                                                                                                                                                                                                                                                                                                    |  |
| Insulation Resistance | 10M ohm between leadwire and frame (500VDC)     |                                                                                                                                                                                                                                                                                                                                                    |  |
| Dielectric Strength   | 1 second at 500 VAC, max leakage - 500 MicroAmp |                                                                                                                                                                                                                                                                                                                                                    |  |
| Storage Temperature   | -30C ~ +90C                                     |                                                                                                                                                                                                                                                                                                                                                    |  |

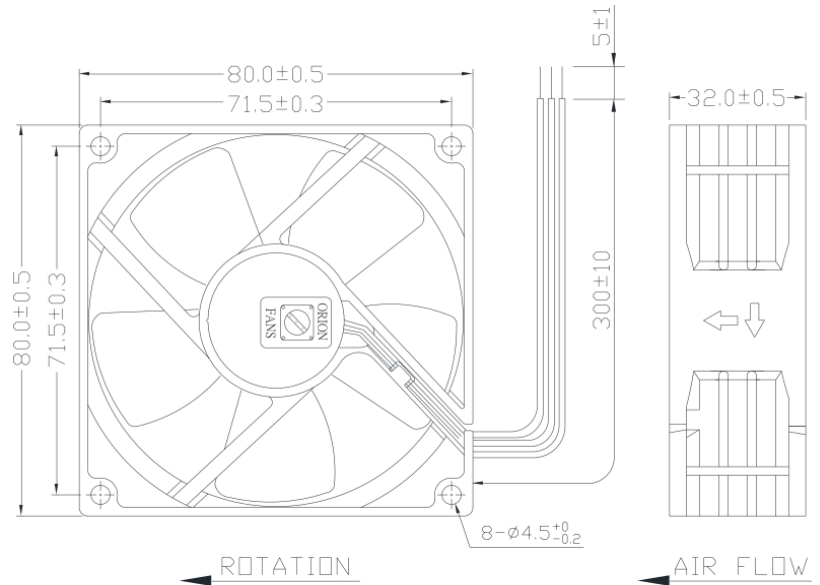
| Model Number | Speed (RPM) | Airflow (CFM) | Noise (dB) | Volts DC | Voltage Range | Nominal Amps | Max. Static Pressure (\"H2O) |
|--------------|-------------|---------------|------------|----------|---------------|--------------|------------------------------|
| OD8032-12H*  | 3800        | 50            | 42         | 12       | 10.8~13.2     | 0.19         | 0.29                         |
| OD8032-12M*  | 3400        | 45            | 37         | 12       | 10.8~13.2     | 0.16         | 0.24                         |
| OD8032-12L*  | 3000        | 40            | 35         | 12       | 10.8~13.2     | 0.11         | 0.19                         |
| OD8032-24H*  | 3800        | 50            | 42         | 24       | 21.6~26.4     | 0.12         | 0.29                         |
| OD8032-24M*  | 3400        | 45            | 37         | 24       | 21.6~26.4     | 0.10         | 0.24                         |
| OD8032-24L*  | 3000        | 40            | 35         | 24       | 21.6~26.4     | 0.07         | 0.19                         |
| OD8032-48H*  | 3800        | 50            | 42         | 48       | 24~56         | 0.08         | 0.29                         |
| OD8032-48M*  | 3400        | 45            | 37         | 48       | 24~56         | 0.07         | 0.24                         |
| OD8032-48L*  | 3000        | 40            | 35         | 48       | 24~56         | 0.06         | 0.19                         |

\* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing

# OD8032-12HHB02A



DC Fan, 12VDC  
80x32mm (3.15x1.25in)



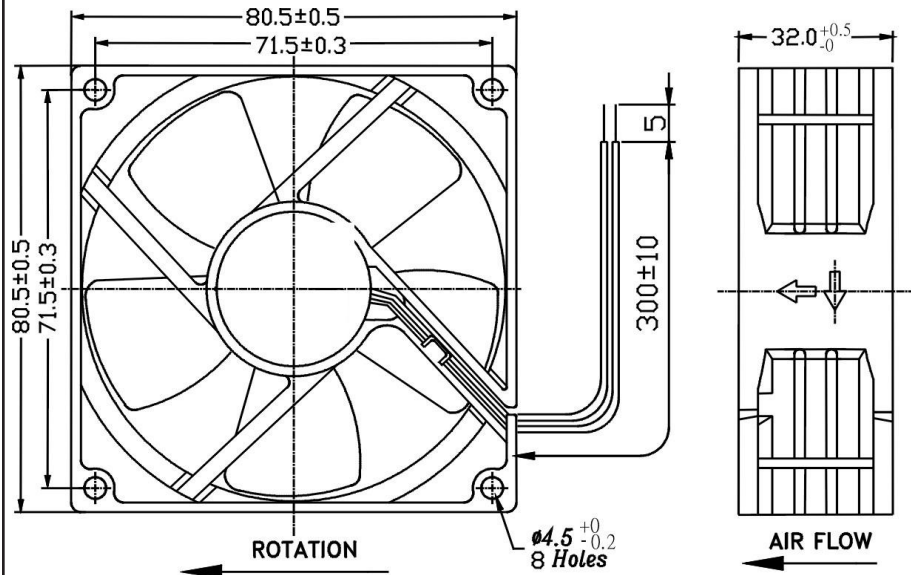
|                       |                                                 |                                                                                                                                                                                                |  |
|-----------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options</b><br>IP55<br>Other speeds and voltages<br>Tachometer<br>PWM<br><br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-),<br>Yellow Alarm<br><br>Weight: 108 g |  |
| 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         | OD8032-12HHB02A       | <b>Output of locked signal</b><br>*Output type.....Open collector type<br>*Electrical design suggestion:<br>(External signal function design is decided by customer)<br><br>*Transistor Q1 at "ON" position<br>Collector current..... $I_C=5mA$ Max<br>Saturation Voltage..... $V_{CE}=1.0V$ Max<br>(Between Collector and Emitter at $I_C=5mA$ )<br>*Transistor Q1 at "OFF" position<br>Release Voltage..... $V_{CE}=15V$ Max<br><br>*Output waveform<br>Supply voltage<br>Fan rotation<br>Fan current<br>Locked signal |
| Part Number          | 184151231             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nominal Voltage      | 12 VDC                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Voltage Range        | 7~13.2 VDC            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nominal Current      | .23 A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Power          | 4.56 Watts            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Speed (RPM)    | 4200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Airflow (CFM)        | 55.5                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Noise Level (dB)     | 44                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Max. Static Pressure | .32 "H <sub>2</sub> O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# OD8032-24HHB



DC Fan, 24VDC  
80x32mm (3.15x1.25in)



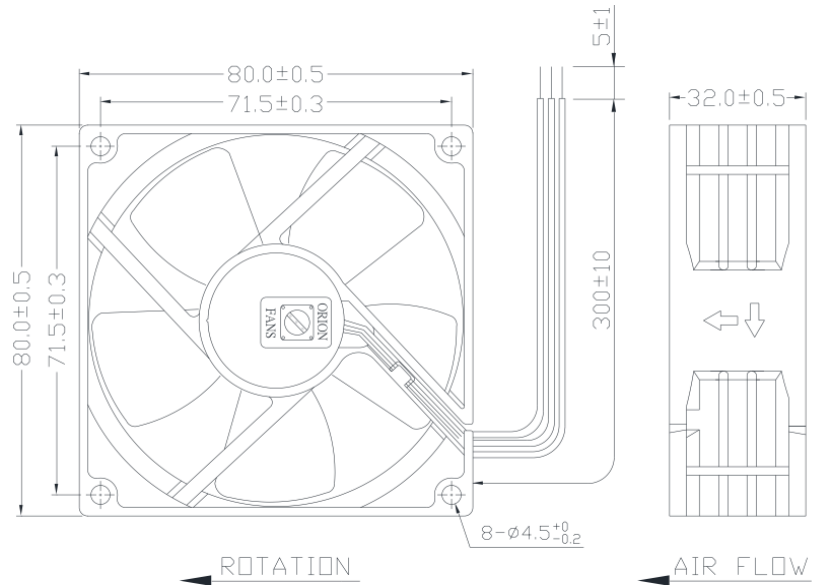
|                       |                                                 |                                                                                                                                                                                     |  |
|-----------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <u>Available Options</u><br>IP55<br>Other speeds and voltages<br>Tachometer<br>PWM<br>Alarm<br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-),<br><br>Weight: 108 g |  |
| 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 "H <sub>2</sub> O |

# OD8032-24HHB02A



DC Fan, 24VDC  
80x32mm (3.15x1.25in)



|                       |                                                 |                                                                                                                                                                                                |  |
|-----------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options</b><br>IP55<br>Other speeds and voltages<br>Tachometer<br>PWM<br><br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-),<br>Yellow Alarm<br><br>Weight: 108 g |  |
| 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       | <b>Output of locked signal</b><br>*Output type.....Open collector type<br>*Electrical design suggestion:<br>(External signal function design is decided by customer)<br><br><br>*Transistor Q1 at "ON" position<br>Collector current..... $I_C=10\text{mA}$ Max<br>Saturation Voltage..... $V_{CE}=1.0\text{V}$ Max<br>(Between Collector and Emitter at $I_C=10\text{mA}$ )<br>*Transistor Q1 at "OFF" position<br>Release Voltage..... $V_{ON}=30\text{V}$ Max<br><br>*Output waveform<br>Supply voltage<br>Fan rotation<br>Fan current<br>Locked signal |
| 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 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |