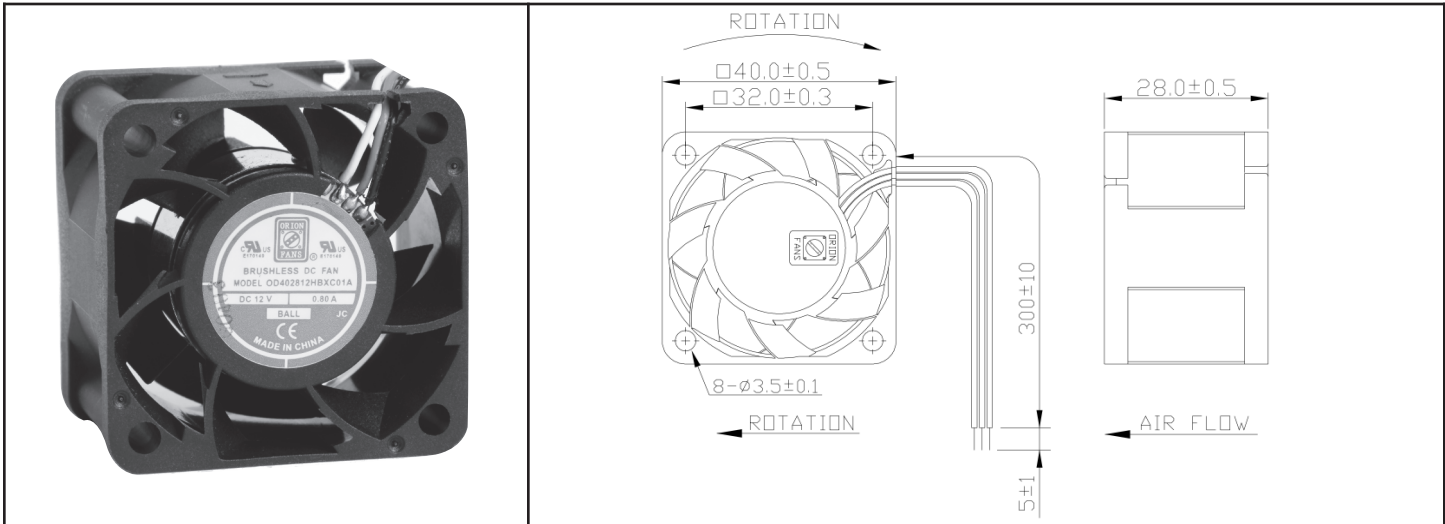


# OD4028 - XC Series



DC Fan - 12V, High Speed  
40x28mm (1.58" x 1.10")



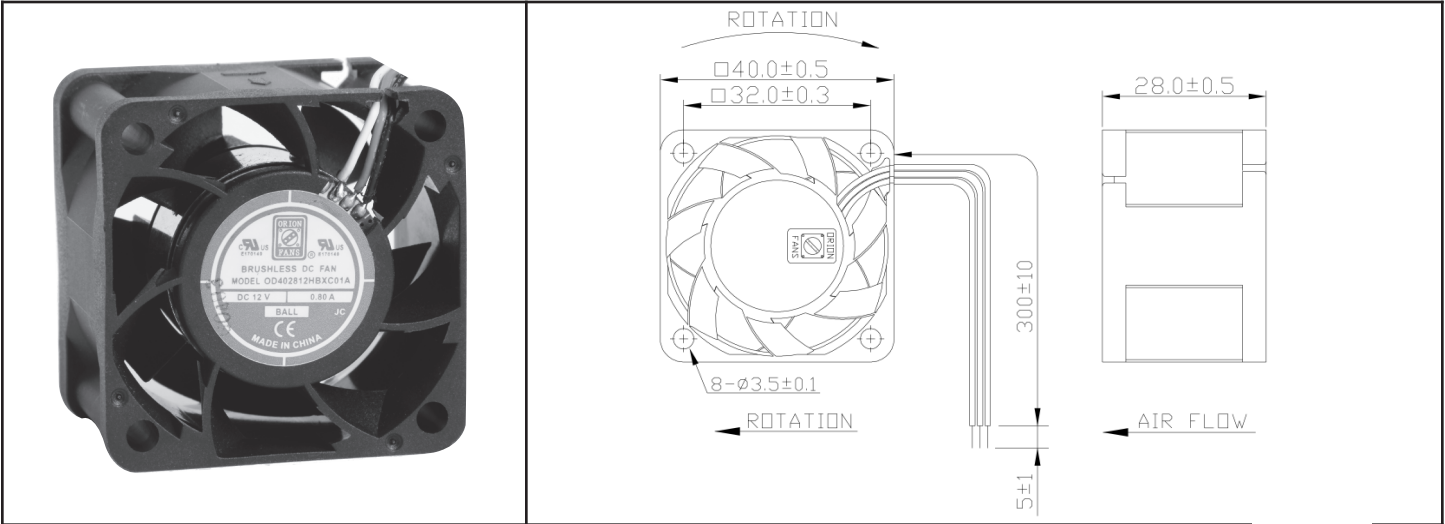
|                       |   |  |                                  |
|-----------------------|---|--|----------------------------------|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options:</b><br>Tachometer<br>Alarm<br>PWM<br>Life Expectancy (L10)<br>50,000 hours (40C)<br>Weight: ~ 0.09 lbs<br>m1 | <b>Fan Performance Curve</b><br> |
| 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 minute at 500 VAC, max leakage < 500 MicroAmp |  |                                  |
| Temperature Range     | -10C ~ 70C                                      |  |                                  |
| Storage Temperature   | -40C ~ +80C                                     |  |                                  |

|                      |                |
|----------------------|----------------|
| Part Number          | OD4028-12HB-XC |
| Nominal Voltage      | 12 VDC         |
| Voltage Range        | 7 ~ 13.2 VDC   |
| Nominal Current      | 0.7 A          |
| Start-up Voltage     | 7.0 VDC        |
| Rated Power          | 10.2 W         |
| Rated Speed (RPM)    | 20,000         |
| Airflow (CFM)        | 22.5           |
| Noise Level (dB)     | 61             |
| Max. Static Pressure | 2.60" H2O      |

# OD4028 - XC Series



DC Fan - 12V, High Speed  
40x28mm (1.58" x 1.10")



|                       |   |  |                                  |
|-----------------------|---|--|----------------------------------|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options:</b><br>Alarm<br>PWM<br><br>Life Expectancy (L10)<br>70,000 hours (40C)<br><br>Weight: ~ 0.09 lbs<br><br>Red +<br>Black -<br>White Tachometer<br><br>m1 | <b>Fan Performance Curve</b><br> |
| 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 minute at 500 VAC, max leakage < 500 MicroAmp |  |                                  |
| Temperature Range     | -10C ~ +70C                                     |  |                                  |
| Storage Temperature   | -40C ~ +80C                                     |  |                                  |

|                      |                        |  |
|----------------------|------------------------|--|
| Part Number          | OD4028-12HBXC01A       | Output of locked signal<br>*Output type.....Open collector type<br>*Electrical design suggestion:<br>(External signal function design is decided by customer)  |
| Nominal Voltage      | 12 VDC                 |  |
| Voltage Range        | 7 ~ 13.2 VDC           |  |
| Nominal Current      | 0.7 A                  | *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..... $V_{ce}=15\text{V Max}$ |
| Start-up Voltage     | 7.0 VDC                | *Output waveform   |
| Rated Power          | 10.2 W                 | Supply voltage   |
| Rated Speed (RPM)    | 20,000                 | Fan rotation   |
| Airflow (CFM)        | 22.5                   | Fan current  |
| Noise Level (dB)     | 61                     | Locked signal  |
| Max. Static Pressure | 2.60" H <sub>2</sub> O |  |