



OD7020 Series Datasheets

DC Fan

70 x 20mm (2.76 x .79in)

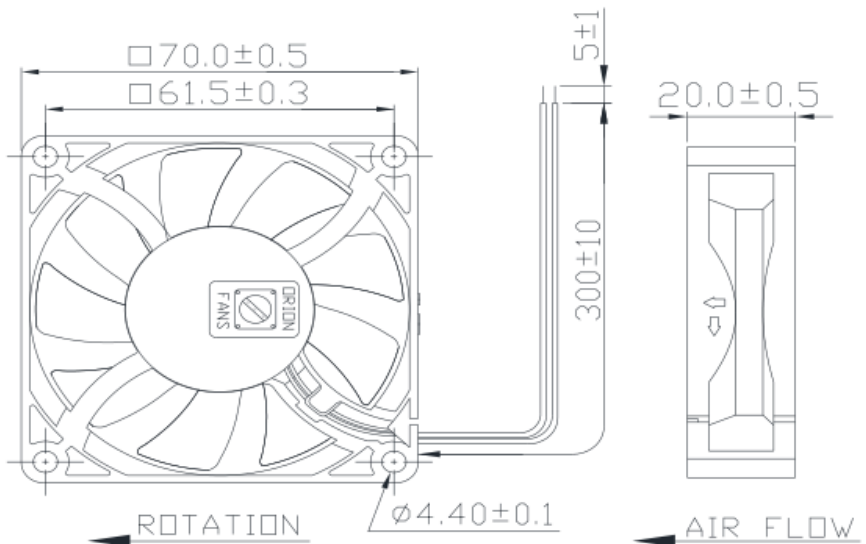


Model #	Pg #	Voltage	RPM	CFM	Noise Level	Max Static Pressure
OD7020-12HB	2	12 VDC	4500	41	41.5 dB	.26 H ₂ O
OD7020-12HHB10A	3	12 VDC	5000	45	43 dB	.31 H ₂ O

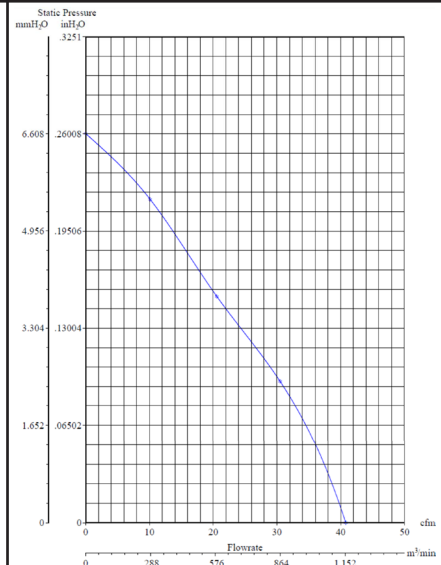
OD7020-12HB



DC Fan, 12VDC
70x20mm (2.76x.79in)



Frame & Impeller	PBT, UL94V-0 plastic	Available Options ThermalControl IP55 Other speeds and voltages Tachometer PWM *Connection: Wire Leads - UL1007 24AWG Red(+), Black (-), Weight: 62 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)	

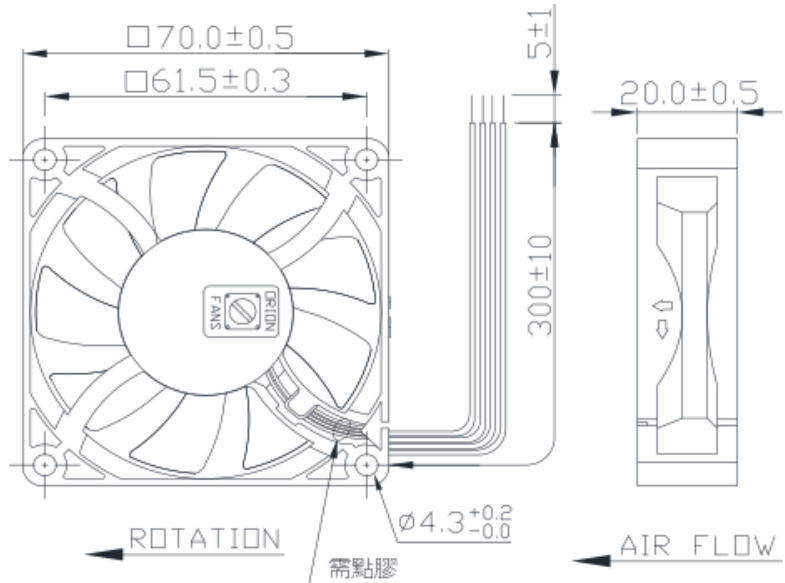


Model Number	OD7020-12HB
Part Number	113141001
Nominal Voltage	12 VDC
Voltage Range	7~13.2 VDC
Nominal Current	.35 A
Rated Power	5.2 Watts
Rated Speed (RPM)	4500
Airflow (CFM)	41
Noise Level (dB)	41.5
Max. Static Pressure	.26 "H ₂ O

OD7020-12HHB10A



DC Fan, 12VDC
70x20mm (2.76x.79in)



Frame & Impeller	PBT, UL94V-0 plastic	Available Options ThermalControl IP55 Other speeds and voltages *Connection: Wire Leads - UL1061, 26AWG Red(+), Black (-), White (tach), Blue (PWM) Weight: 62 g	Graph showing static pressure (mmH₂O, inH₂O) vs. airflow (cfm). The curve shows a decrease in static pressure as airflow increases.
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 second at 500VAC max leakage 500 microamp		
Temperature Range	-10C ~ +70C		
Storage Temperature	-40C ~ +80C		
Life (L10)	70,000 hours (40C)		

Model Number	OD7020-12HHB10A	* OUTPUT OF LOCKED SIGNAL -----OPEN COLLECTOR TYPE (External signal function design is decided by customer) Circuit diagram showing a CUSTOMER'S CIRCUIT connected to a FAN (PWM SPEED CONTROL) and another CUSTOMER'S CIRCUIT. The FAN has a PWM INPUT and a GND. The second CUSTOMER'S CIRCUIT has a 15V MAX RESISTOR, an FG Signal, and a GND. The diagram also shows a transistor Q1 and its output V₀.
Part Number	113151261	
Nominal Voltage	12 VDC	
Voltage Range	8~13.2 VDC	
Nominal Current	.50 A	
Rated Power	6 Watts	
Rated Speed (RPM)	5000	
Airflow (CFM)	45	
Noise Level (dB)	43	
Max. Static Pressure	.31 "H ₂ O	

*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT-----I_c = 10mA MAX
SATURATION VOLTAGE-----V_{ce} = 1 V MAX

*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE-----V_{ce} = 15 V MAX

*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGH-----V_{in} = 3V~5.5 V
PWM INPUT VOLTAGE LOW-----V_{in} = 0V~0.5V

*PWM INPUT FREQUENCY-----FPWM: 18KHZ~30KHZ