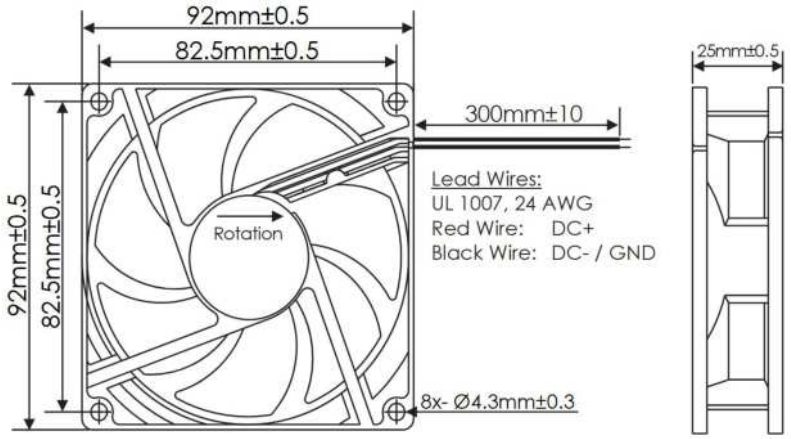
OD9225 Series

DC Fans - 12, 24, 48V
92mm x 25mm (3.6” x 1.0”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Lead Wires, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10M Ohm @ 500 VDC

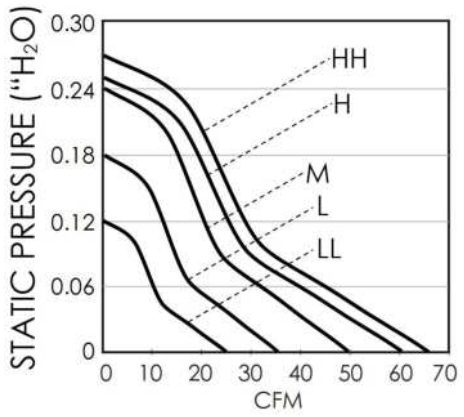
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

Available Options
PWM Speed Control Input
Tachometer Output
Alarm Output
5V Models
IP Ratings

Weight: 0.18 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD9225-12HHB	12	8 ~ 13.8	3.5	0.29	3575	65.7	43	0.27
OD9225-12HB	12	8 ~ 13.8	3.5	0.29	3325	60.2	38	0.25
OD9225-12MB	12	8 ~ 13.8	3.5	0.29	2900	49.8	35	0.24
OD9225-12LB	12	8 ~ 13.8	2.4	0.20	2475	35.3	30	0.18
OD9225-12LLB	12	8 ~ 13.8	1.4	0.12	1850	25.1	23	0.12
OD9225-24HHB	24	15 ~ 26.4	4.3	0.18	3575	65.7	43	0.27
OD9225-24HB	24	15 ~ 26.4	4.3	0.18	3325	60.2	38	0.25
OD9225-24MB	24	15 ~ 26.4	4.3	0.18	2900	49.8	35	0.24
OD9225-24LB	24	15 ~ 26.4	2.9	0.12	2475	35.3	30	0.18
OD9225-48HHB	48	28 ~ 52.8	4.3	0.09	3575	65.7	43	0.27
OD9225-48HB	48	28 ~ 52.8	4.3	0.09	3325	60.2	38	0.25

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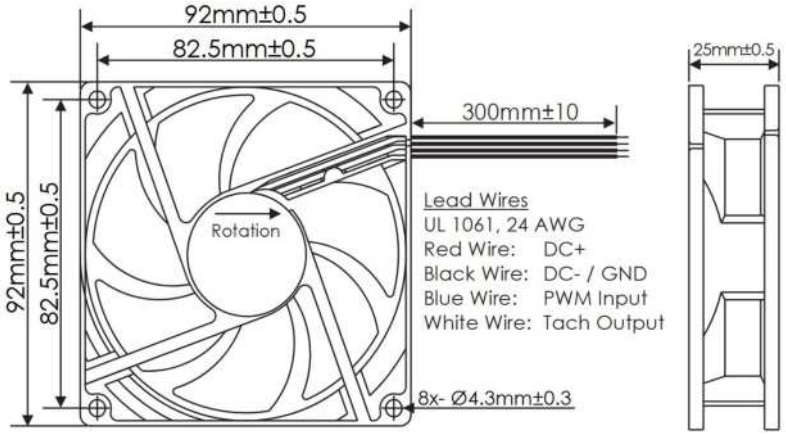
E170149

Orion Fans
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OD9225 Series with PWM and Tach

DC Fans - 12, 24, 48V
92mm x 25mm (3.6" x 1.0")





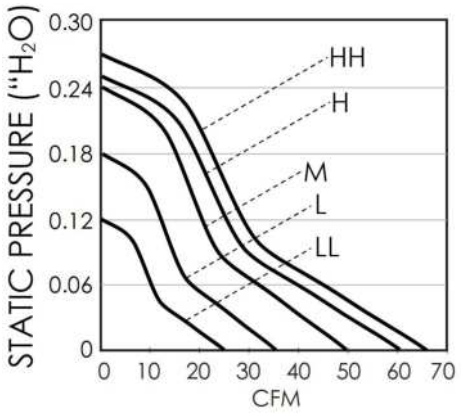
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Lead Wires, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10M Ohm @ 500 VDC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)

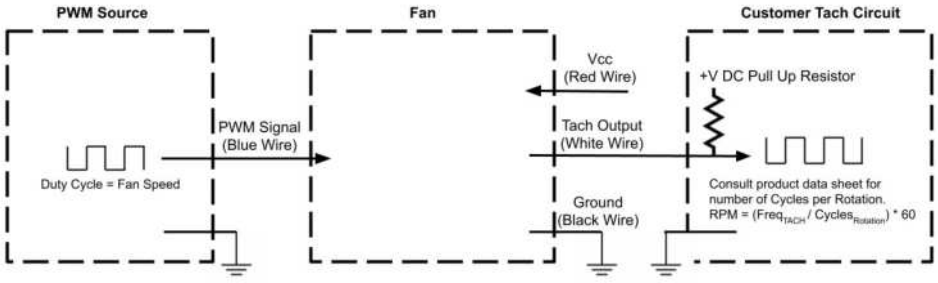
Installed Options
PWM Speed Control Input
Open Collector Tach Output

Available Options
5V TTL Tach Output
IP Ratings

Weight: 0.18 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD9225-12HHB10A	12	8 ~ 13.8	3.5	0.29	3575	65.7	43	0.27
OD9225-12HB10A	12	8 ~ 13.8	3.5	0.29	3325	60.2	38	0.25
OD9225-12MB10A	12	8 ~ 13.8	3.5	0.29	2900	49.8	35	0.24
OD9225-12LB10A	12	8 ~ 13.8	2.4	0.20	2475	35.3	30	0.18
OD9225-12LLB10A	12	8 ~ 13.8	1.4	0.12	1850	25.1	23	0.12
OD9225-24HHB10A	24	15 ~ 26.4	4.3	0.18	3575	65.7	43	0.27
OD9225-24HB10A	24	15 ~ 26.4	4.3	0.18	3325	60.2	38	0.25
OD9225-24MB10A	24	15 ~ 26.4	4.3	0.18	2900	49.8	35	0.24
OD9225-24LB10A	24	15 ~ 26.4	2.9	0.12	2475	35.3	30	0.18
OD9225-48HHB10A	48	28 ~ 52.8	4.3	0.09	3575	65.7	43	0.27
OD9225-48HB10A	48	28 ~ 52.8	4.3	0.09	3325	60.2	38	0.25



PWM Max High Voltage: 5.5V
PWM Max Sink Current: 5mA
PWM Frequency Range: 1KHz-100KHz
PWM Typical Frequency: 25KHz
RPM at 0% Duty Cycle: 0 RPM
RPM will be full speed if PWM input is disconnected.
RPM will be 0 if PWM input is 0V or grounded.
Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

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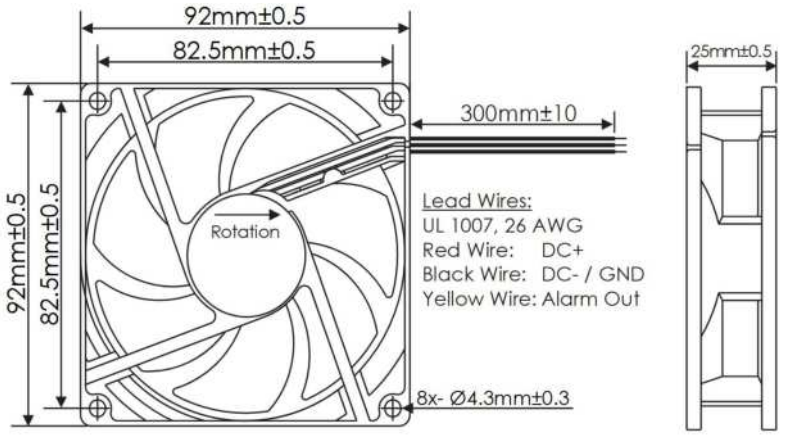
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OD9225 Series with Alarm

DC Fans - 12, 24, 48V
92mm x 25mm (3.6” x 1.0”)

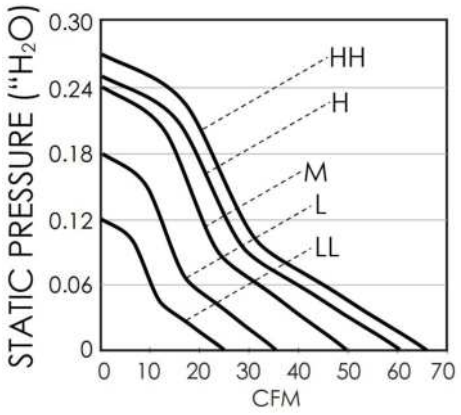




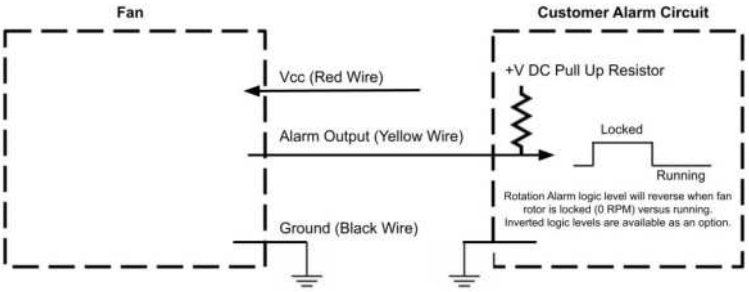
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10M Ohm @ 500 VDC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)
Installed Options
Open Collector Alarm Output
Available Options
5V TTL Alarm Output
Inverted Alarm Type
IP Ratings

Weight: 0.18 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD9225-12HHB02A	12	8 ~ 13.8	3.5	0.29	3575	65.7	43	0.27
OD9225-12HB02A	12	8 ~ 13.8	3.5	0.29	3325	60.2	38	0.25
OD9225-12MB02A	12	8 ~ 13.8	3.5	0.29	2900	49.8	35	0.24
OD9225-12LB02A	12	8 ~ 13.8	2.4	0.20	2475	35.3	30	0.18
OD9225-12LLB02A	12	8 ~ 13.8	1.4	0.12	1850	25.1	23	0.12
OD9225-24HHB02A	24	15 ~ 26.4	4.3	0.18	3575	65.7	43	0.27
OD9225-24HB02A	24	15 ~ 26.4	4.3	0.18	3325	60.2	38	0.25
OD9225-24MB02A	24	15 ~ 26.4	4.3	0.18	2900	49.8	35	0.24
OD9225-24LB02A	24	15 ~ 26.4	2.9	0.12	2475	35.3	30	0.18
OD9225-48HHB02A	48	28 ~ 52.8	4.3	0.09	3575	65.7	43	0.27
OD9225-48HB02A	48	28 ~ 52.8	4.3	0.09	3325	60.2	38	0.25



Alarm Max Pullup Voltage: Fan Vcc
Alarm Max Sink Current: 5mA
Alarm Active State: HIGH

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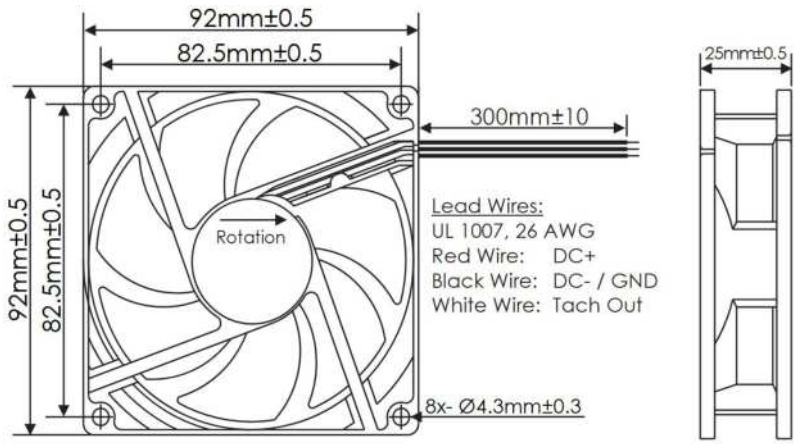
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OD9225 Series with Tach

DC Fans - 12, 24, 48V
92mm x 25mm (3.6” x 1.0”)





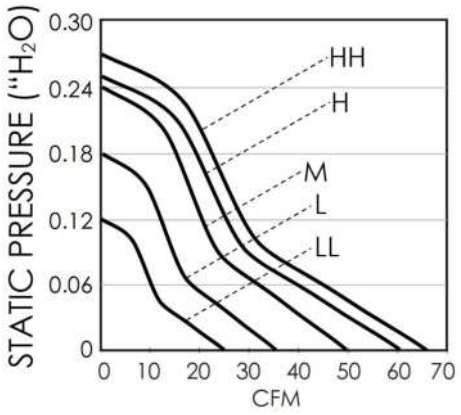
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10M Ohm @ 500 VDC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)

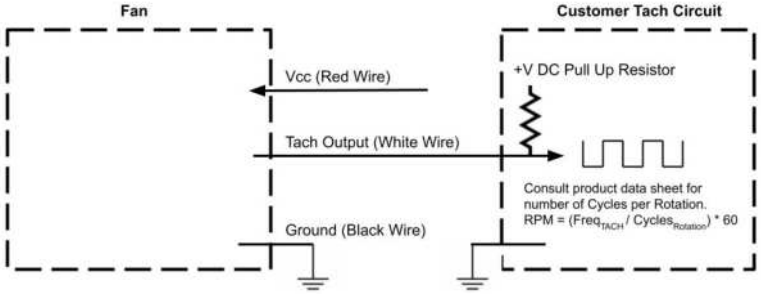
Installed Options
Open Collector Tach Output

Available Options
5V TTL Tach Output
IP Ratings

Weight: 0.18 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD9225-12HHB01A	12	8 ~ 13.8	3.5	0.29	3575	65.7	43	0.27
OD9225-12HB01A	12	8 ~ 13.8	3.5	0.29	3325	60.2	38	0.25
OD9225-12MB01A	12	8 ~ 13.8	3.5	0.29	2900	49.8	35	0.24
OD9225-12LB01A	12	8 ~ 13.8	2.4	0.20	2475	35.3	30	0.18
OD9225-12LLB01A	12	8 ~ 13.8	1.4	0.12	1850	25.1	23	0.12
OD9225-24HHB01A	24	15 ~ 26.4	4.3	0.18	3575	65.7	43	0.27
OD9225-24HB01A	24	15 ~ 26.4	4.3	0.18	3325	60.2	38	0.25
OD9225-24MB01A	24	15 ~ 26.4	4.3	0.18	2900	49.8	35	0.24
OD9225-24LB01A	24	15 ~ 26.4	2.9	0.12	2475	35.3	30	0.18
OD9225-48HHB01A	48	28 ~ 52.8	4.3	0.09	3575	65.7	43	0.27
OD9225-48HB01A	48	28 ~ 52.8	4.3	0.09	3325	60.2	38	0.25



Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

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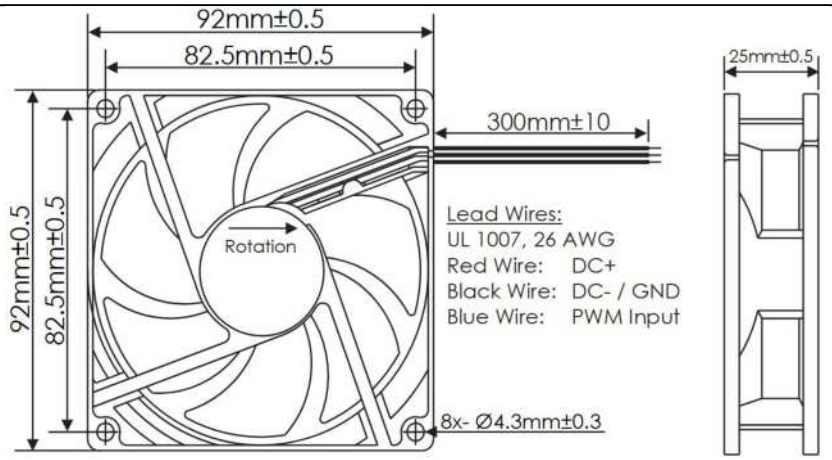
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OD9225 Series with PWM

DC Fans - 12, 24, 48V
92mm x 25mm (3.6” x 1.0”)



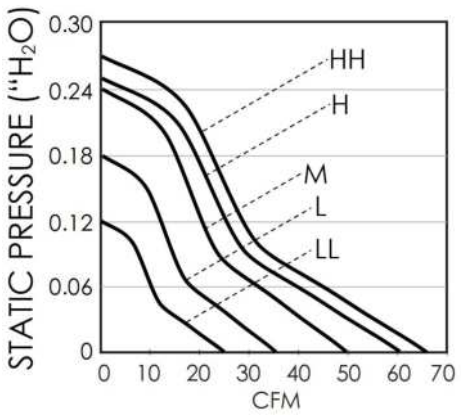


Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10M Ohm @ 500 VDC

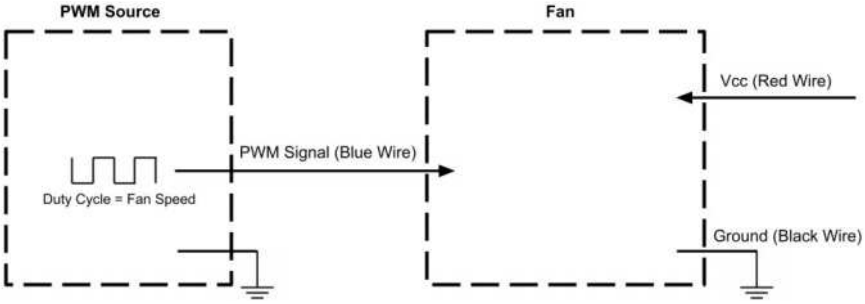
Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
PWM Speed Control Input

Weight: 0.18 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure (“H_2O)
OD9225-12HHB05	12	8 ~ 13.8	3.5	0.29	3575	65.7	43	0.27
OD9225-12HB05	12	8 ~ 13.8	3.5	0.29	3325	60.2	38	0.25
OD9225-12MB05	12	8 ~ 13.8	3.5	0.29	2900	49.8	35	0.24
OD9225-12LB05	12	8 ~ 13.8	2.4	0.20	2475	35.3	30	0.18
OD9225-12LLB05	12	8 ~ 13.8	1.4	0.12	1850	25.1	23	0.12
OD9225-24HHB05	24	15 ~ 26.4	4.3	0.18	3575	65.7	43	0.27
OD9225-24HB05	24	15 ~ 26.4	4.3	0.18	3325	60.2	38	0.25
OD9225-24MB05	24	15 ~ 26.4	4.3	0.18	2900	49.8	35	0.24
OD9225-24LB05	24	15 ~ 26.4	2.9	0.12	2475	35.3	30	0.18
OD9225-48HHB05	48	28 ~ 52.8	4.3	0.09	3575	65.7	43	0.27
OD9225-48HB05	48	28 ~ 52.8	4.3	0.09	3325	60.2	38	0.25



PWM Max High Voltage: 5.5V
PWM Max Sink Current: 5mA
PWM Frequency Range: 1KHz-100KHz
PWM Typical Frequency: 25KHz
RPM at 0% Duty Cycle: 0 RPM
RPM will be full speed if PWM input is disconnected.
RPM will be 0 if PWM input is 0V or grounded.

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