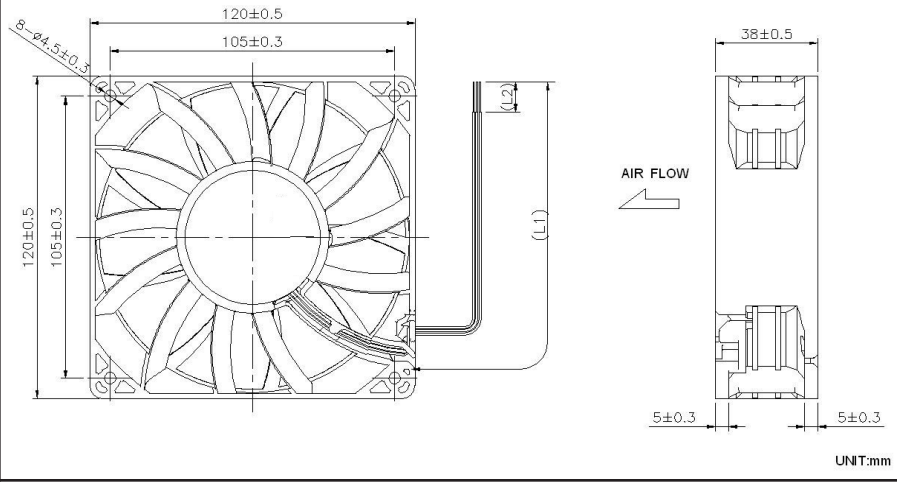
OD1238 XJ Series

DC Fan 12V

120x38mm (4.7″x 1.5″)



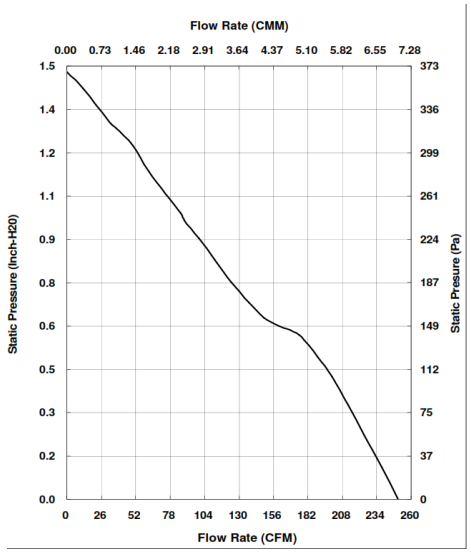
Frame & Impeller	PBT, UL94V-O plastic
Connecion	3x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp
Temperature Range	-10C ~ +70C
Storage Temperature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

Tachometer - Open Collector

Weight: ~ 375 g

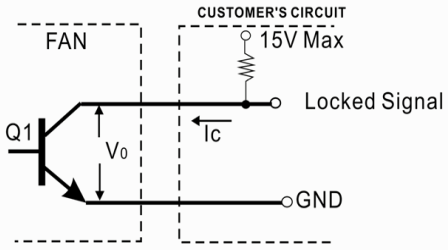
* Connection
UL1007, 24AWG, ~320mm
Red (+)
Black (-)
White Tachometer

m1



Part Number	OD1238-12HBXJ01A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	3.70 A
Rated Power	44.4 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48" H_2O

*Output type.....Open collector type
*Electrical design suggestion:



*Transistor Q1 at "ON" position
Collector current.....I_C=10mA Max
Saturation Voltage.....V_{OL}=1.0V Max
(Between Collector and Emitter at I_C=10mA)
*Transistor Q1 at "OFF" position
Release Voltage.....V_{OH}=15V Max

Knight Electronics, Inc.
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Orion Fans

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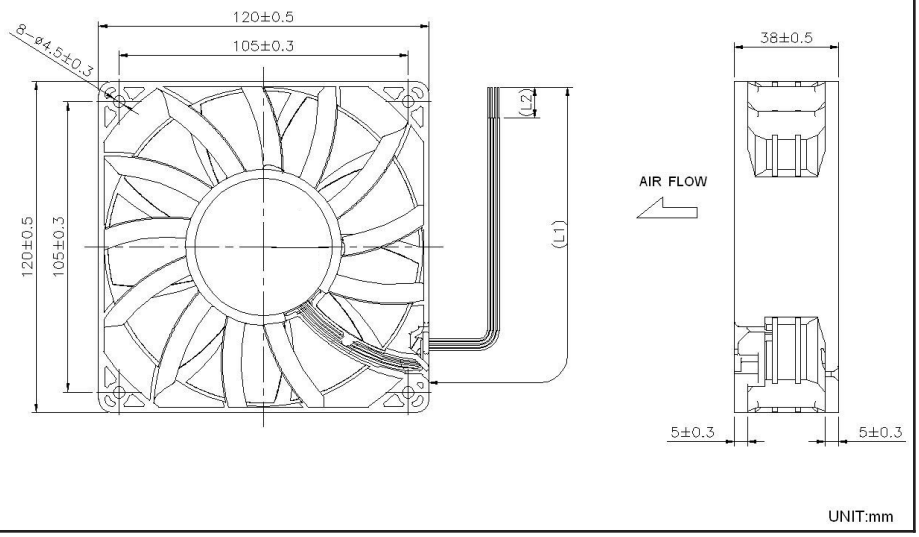
OD1238 XJ Series

DC Fan 12V

120x38mm (4.7"x 1.5")



Frame & Impeller	PBT, UL94V-O plastic
Connecion	4x 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
Life (L10)	70,000 hours (40C)

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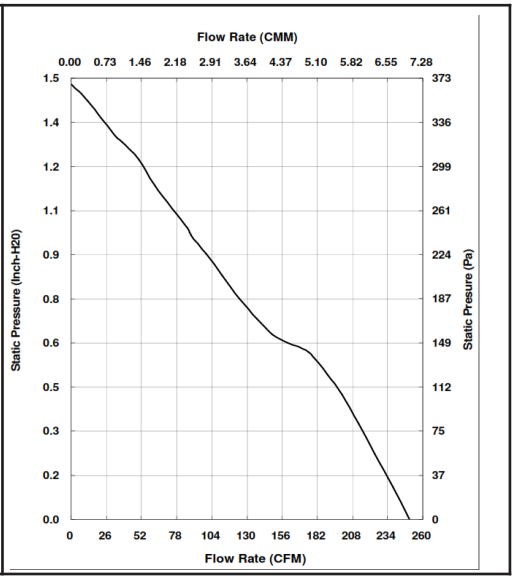
Tachometer - Open Collector PWM

Weight: ~ 375 g

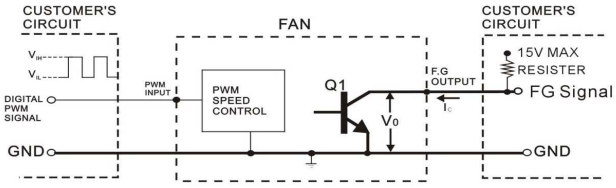
* Connection
UL1007, 24AWG, ~320mm
Red (+)
Black (-)
White Tachometer
Blue PWM

m1



Part Number	OD1238-12HBXJ10A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	3.70 A
Rated Power	44.4 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48" H_2O

(External signal function design is decided by customer)



*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT---------- I_C =10mA MAX
SATURATION VOLTAGE---------- V_{OL}=1 V MAX
*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE---------- V_{OH}=15 V MAX
*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGH---------- V_{IH}=3V~5.5 V
PWM INPUT VOLTAGE LOW---------- V_{IL}= 0V~0.5V

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

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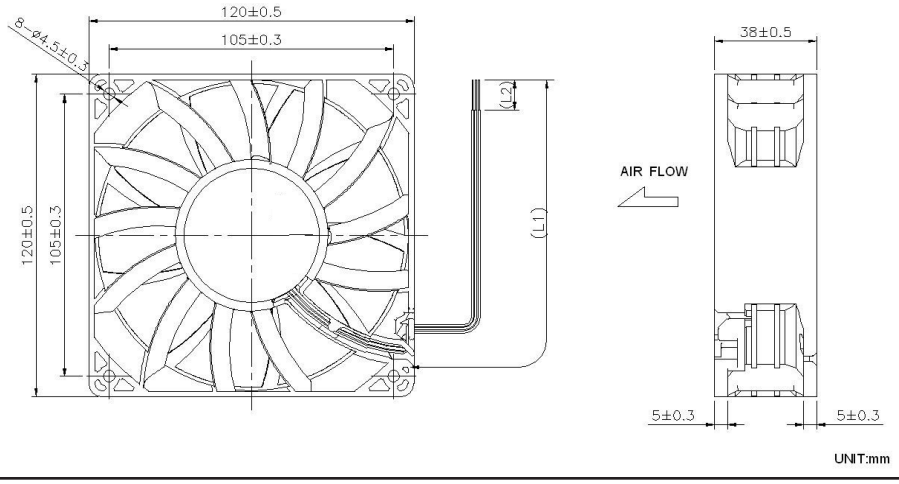
DC Fan 12V

120x38mm (4.7"x 1.5")



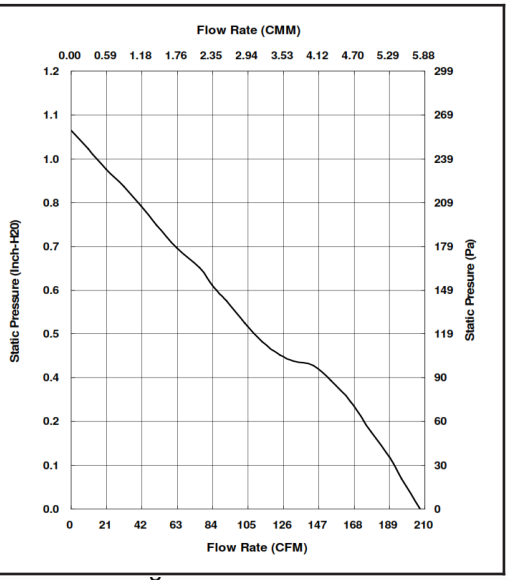
Frame & Impeller	PBT, UL94V-O plastic
Connecion	3x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp
Temperature Range	-10C ~ +70C
Storage Temperature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

Tachometer - Open Collector

Weight: ~ 375 g

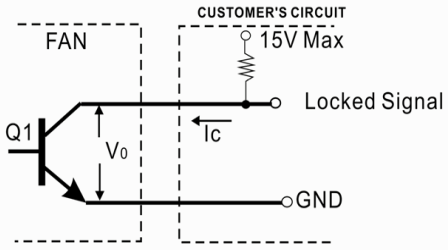
* Connection
UL1007, 24AWG, ~320mm
Red (+)
Black (-)
White Tachometer

m1



Part Number	OD1238-12MBXJ01A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	2.30 A
Rated Power	27.6 W
Rated Speed (RPM)	5000
Airflow (CFM)	207
Noise Level (dB)	63
Max. Static Pressure	1.04" H_2O

*Output type.....Open collector type
*Electrical design suggestion:



*Transistor Q1 at "ON" position
Collector current.....I_C=10mA Max
Saturation Voltage.....V_{OL}=1.0V Max
(Between Collector and Emitter at I_C=10mA)
*Transistor Q1 at "OFF" position
Release Voltage.....V_{OH}=15V Max

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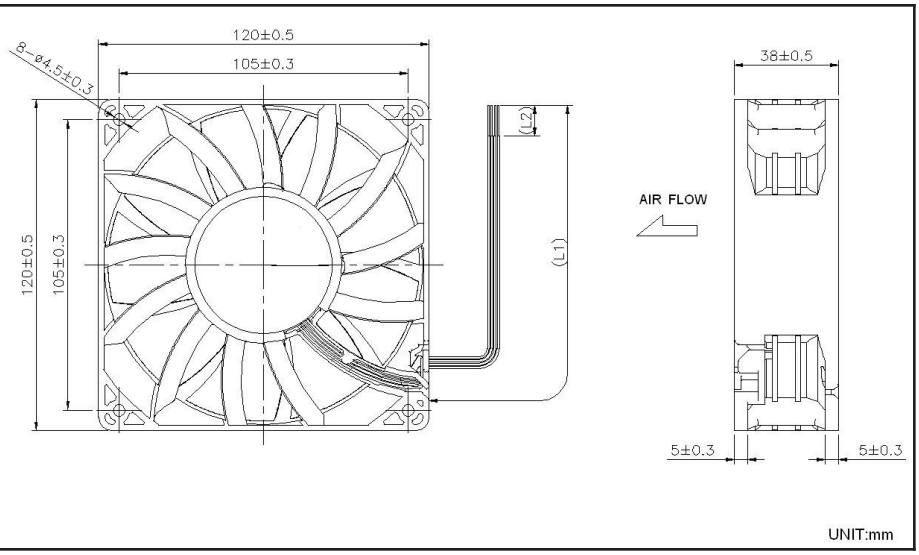
OD1238 XJ Series

DC Fan 12V

120x38mm (4.7"x 1.5")



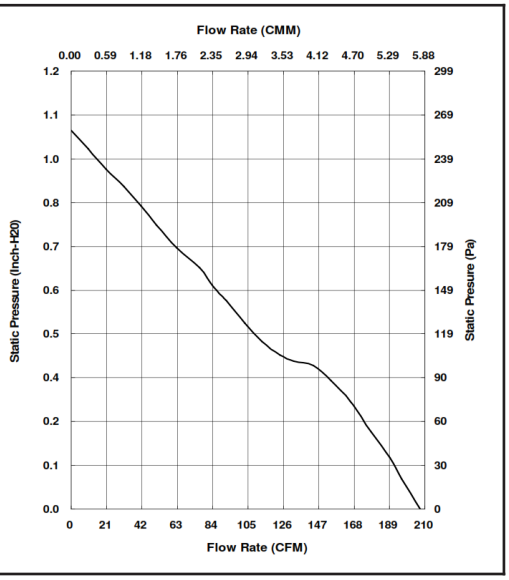
Frame & Impeller	PBT, UL94V-O plastic
Connecion	4x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp
Temperature Range	-10C ~ +70C
Storage Temperature	-40C ~ +80C
Life (L10)	70,000 hours (40C)

Tachometer - Open Collector PWM

Weight: ~ 375 g

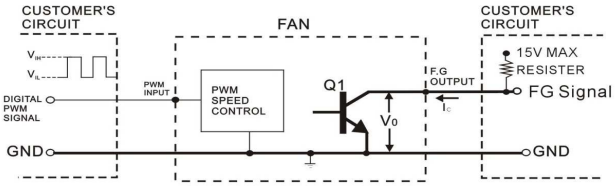
* Connection
UL1007, 24AWG, ~320mm
Red (+)
Black (-)
White Tachometer
Blue PWM

m1



Part Number	OD1238-12MBXJ10A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	2.30 A
Rated Power	27.6 W
Rated Speed (RPM)	5000
Airflow (CFM)	207
Noise Level (dB)	63
Max. Static Pressure	1.04" H_2O

(External signal function design is decided by customer)



*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT---------- I_C =10mA MAX
SATURATION VOLTAGE---------- V_{OL}=1 V MAX
*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE---------- V_{OH}=15 V MAX
*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGH---------- V_{IH}=3V~5.5 V
PWM INPUT VOLTAGE LOW---------- V_{IL}= 0V~0.5V

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

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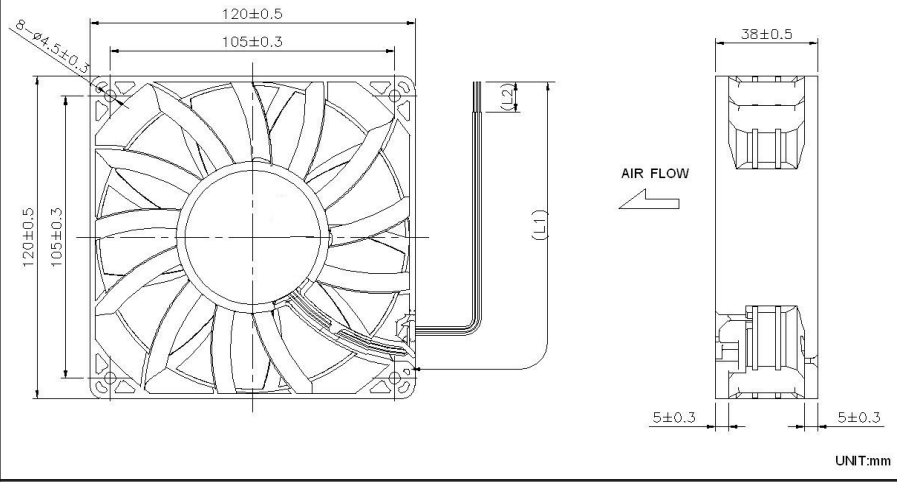
OD1238-24HBXJ01A

DC Fan 24V

120x38mm (4.7″x 1.5″)



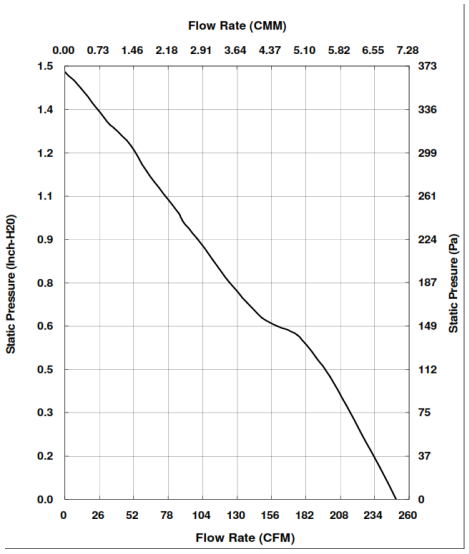
Frame & Impeller	PBT, UL94V-O plastic
Connecion	3x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp
Temperature Range	-10C ~ +70C
Storage Temperature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

Tachometer - Open Collector

Weight: ~ 375 g

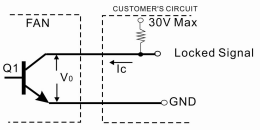
* Connection
UL1007, 24AWG, ~320mm
Red (+)
Black (-)
White Tachometer

m1



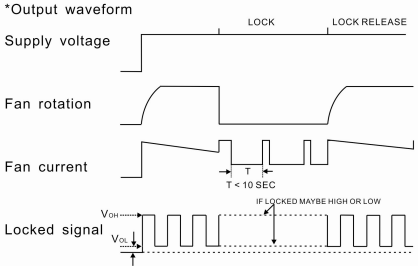
Part Number	OD1238-24HBXJ01A
Nominal Voltage	24V DC
Voltage Range	17 ~ 26.4V DC
Nominal Current	1.75 A
Nominal Power	42 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48” H2O

*Output type.....Open collector type
*Electrical design suggestion:
(External signal function design is decided by customer)



*Transistor Q1 at "ON" position
Collector current.....I_C=10mA Max
Saturation Voltage.....V_{OL}=1.0V Max
(Between Collector and Emitter at I_C=10mA)
*Transistor Q1 at "OFF" position
Release Voltage.....V_{OH}=30V Max

*Output waveform



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