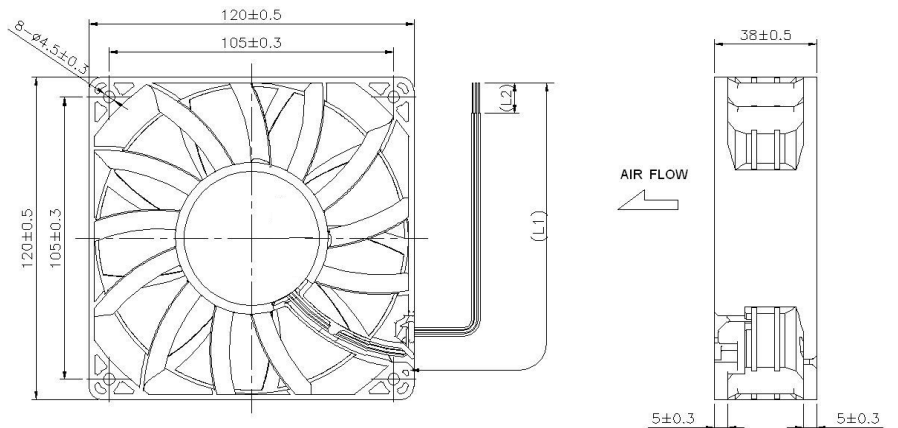


OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")



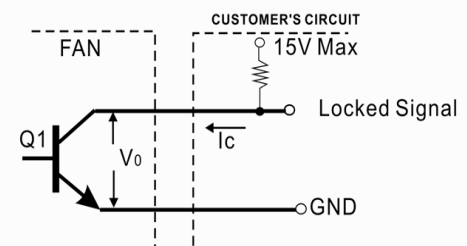
UNIT:mm

Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	Flow Rate (CFM) Static Pressure (Inch-H₂O) Static Pressure (Pa)
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	m1	
Life (L10)	70,000 hours (40C)		

*Output type.....Open collector type

*Electrical design suggestion:

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 ₂ O



*Transistor Q1 at "ON" position
Collector current..... $I_c = 10\text{mA}$ Max
Saturation Voltage..... $V_{OL} = 1.0\text{V}$ Max
(Between Collector and Emitter at $I_c = 10\text{mA}$)

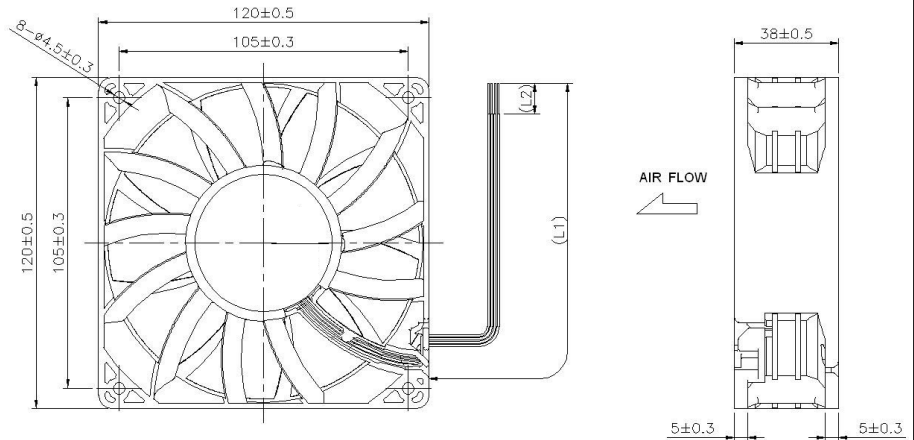
*Transistor Q1 at "OFF" position
Release Voltage..... $V_{OH} = 15\text{V}$ Max

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")



UNIT:mm

Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector PWM Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer Blue PWM m1
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)	

Flow Rate (CMM)

0.000.731.462.182.913.644.375.105.826.557.28

1.51.41.21.10.90.80.60.50.30.20.0

37333629926122418714911275370

0265278104130156182208234260

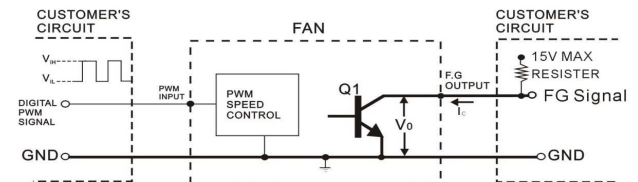
Flow Rate (CFM)

Static Pressure (Inch-H2O)

Static Pressure (Pa)

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 ₂ O

(External signal function design is decided by customer)



*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT----- $I_C = 10\text{mA MAX}$
SATURATION VOLTAGE----- $V_{OL} = 1\text{ V MAX}$

*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE----- $V_{OH} = 15\text{ V MAX}$

*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGH----- $V_{IH} = 3\text{V} \sim 5.5\text{ V}$
PWM INPUT VOLTAGE LOW----- $V_{IL} = 0\text{V} \sim 0.5\text{V}$

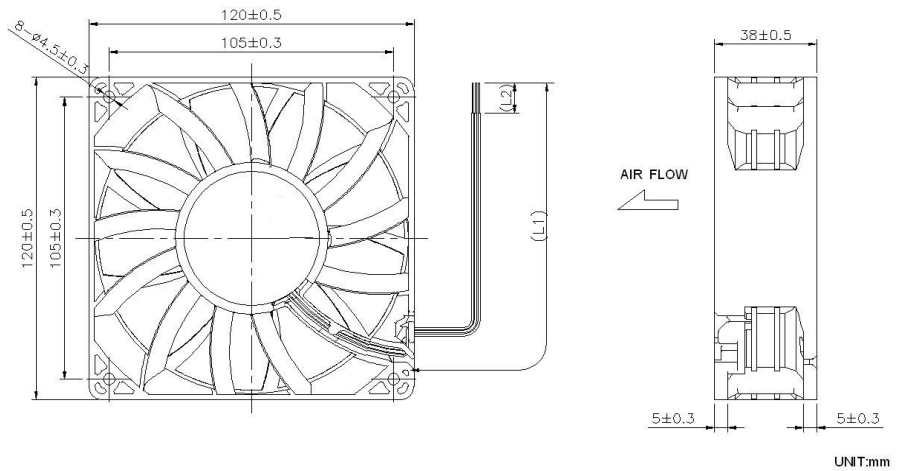
*PWM INPUT FREQUENCY----- $FPWM: 18\text{KHZ} \sim 30\text{KHZ}$

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")

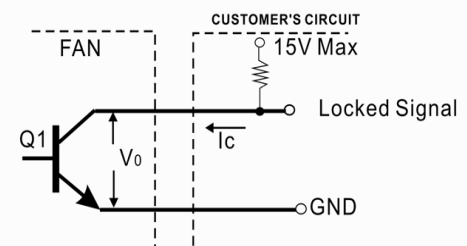


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	Flow Rate (CFM) Static Pressure (Inch-H₂O) Static Pressure (Pa)
Connecion	3x Lead wires *		
Motor	Brushless DC, auto restart, polarity protected.		
Bearing 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	m1	
Life (L10)	70,000 hours (40C)		

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 ₂ O

*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)

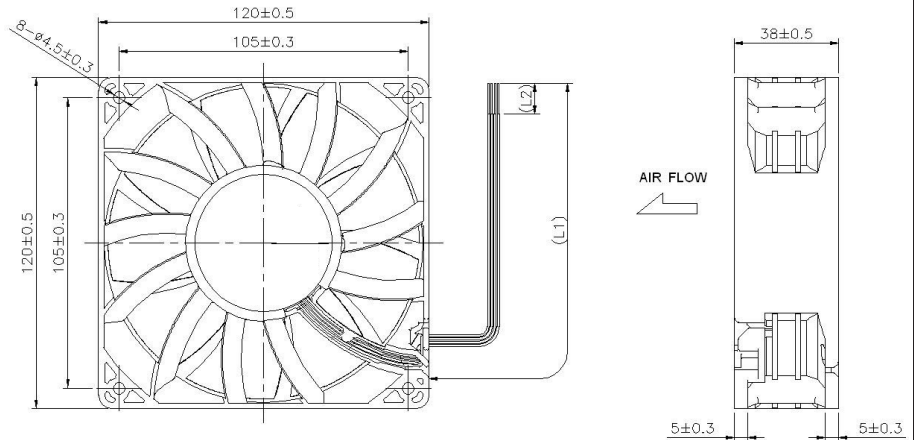
*Transistor Q1 at "OFF" position
Release Voltage..... V_{OH} =15V Max

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")

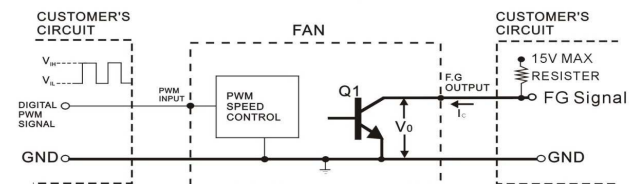


UNIT:mm

Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector PWM Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer Blue PWM	
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	m1	
Life (L10)	70,000 hours (40C)		

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 ₂ O

(External signal function design is decided by customer)

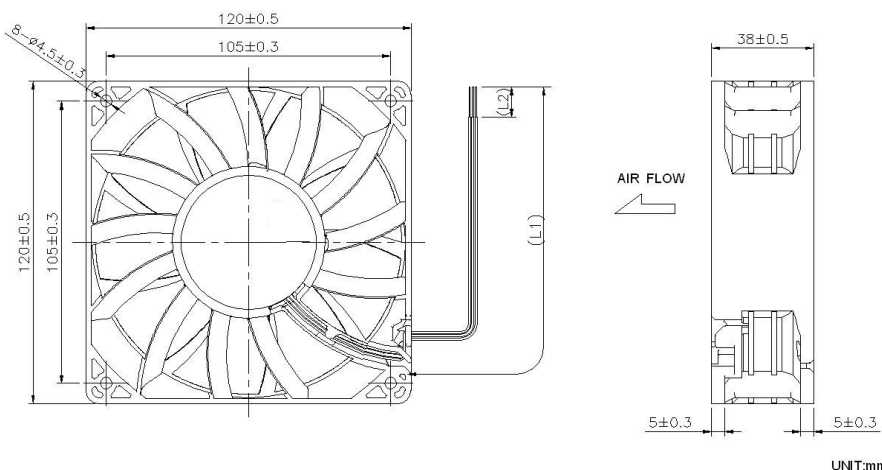


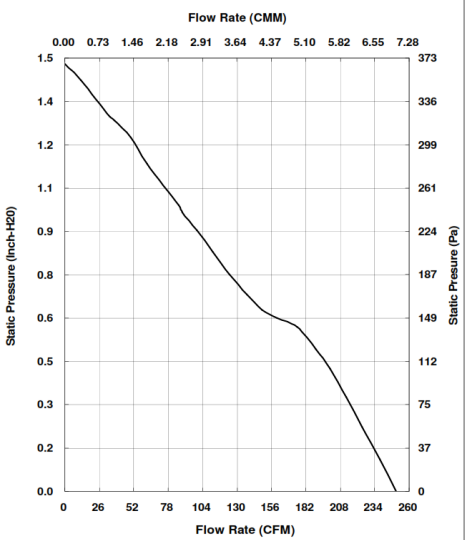
*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT----- $I_C = 10\text{mA MAX}$
SATURATION VOLTAGE----- $V_{OL} = 1\text{ V MAX}$

*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE----- $V_{OH} = 15\text{ V MAX}$

*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGH----- $V_{IH} = 3\text{V} \sim 5.5\text{ V}$
PWM INPUT VOLTAGE LOW----- $V_{IL} = 0\text{V} \sim 0.5\text{V}$

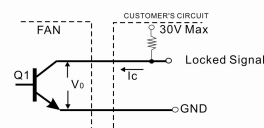
*PWM INPUT FREQUENCY----- $FPWM: 18\text{KHZ} \sim 30\text{KHZ}$



Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	
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	m1	
Life (L10)	70,000 hours (40C)		

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..... $I_C=10\text{mA}$ Max
 Saturation Voltage..... $V_{CE}=1.0\text{V}$ Max
 (Between Collector and Emitter at $I_C=10\text{mA}$)
 *Transistor Q1 at "OFF" position
 Release Voltage..... $V_{CE}=30\text{V}$ Max

