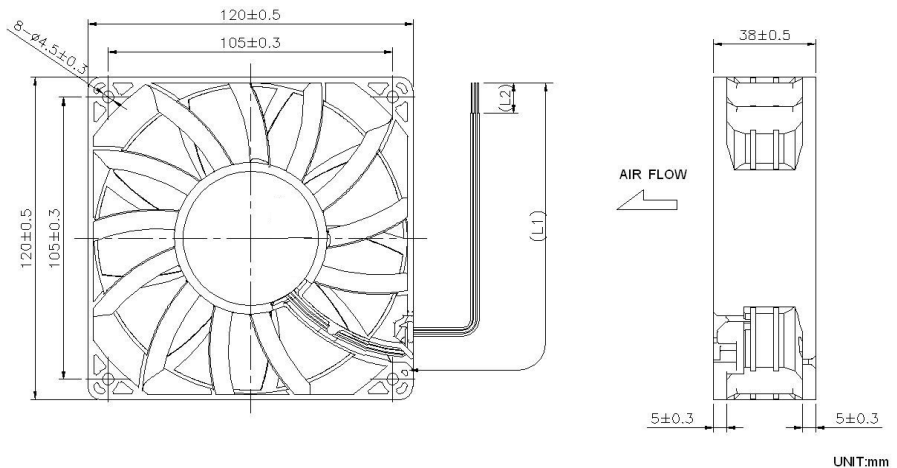


OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")

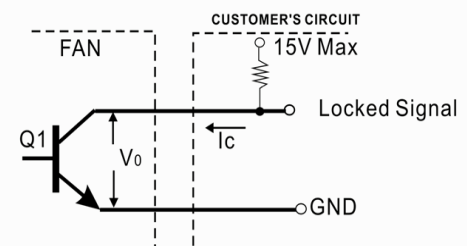


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector Weight: ~ 375 g * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer m1	Flow Rate (CMM) <table border="1"><caption>Performance Data Points (Estimated)</caption><thead><tr><th>Flow Rate (CFM)</th><th>Flow Rate (CMM)</th><th>Static Pressure (Inch-H2O)</th><th>Static Pressure (Pa)</th></tr></thead><tbody><tr><td>0</td><td>0.00</td><td>1.5</td><td>373</td></tr><tr><td>26</td><td>0.73</td><td>1.35</td><td>336</td></tr><tr><td>52</td><td>1.46</td><td>1.25</td><td>299</td></tr><tr><td>78</td><td>2.18</td><td>1.1</td><td>261</td></tr><tr><td>104</td><td>2.91</td><td>0.95</td><td>224</td></tr><tr><td>130</td><td>3.64</td><td>0.75</td><td>187</td></tr><tr><td>156</td><td>4.37</td><td>0.6</td><td>149</td></tr><tr><td>182</td><td>5.10</td><td>0.55</td><td>112</td></tr><tr><td>208</td><td>5.82</td><td>0.35</td><td>75</td></tr><tr><td>234</td><td>6.55</td><td>0.15</td><td>37</td></tr><tr><td>260</td><td>7.28</td><td>0.0</td><td>0</td></tr></tbody></table> Flow Rate (CFM)	Flow Rate (CFM)	Flow Rate (CMM)	Static Pressure (Inch-H2O)	Static Pressure (Pa)	0	0.00	1.5	373	26	0.73	1.35	336	52	1.46	1.25	299	78	2.18	1.1	261	104	2.91	0.95	224	130	3.64	0.75	187	156	4.37	0.6	149	182	5.10	0.55	112	208	5.82	0.35	75	234	6.55	0.15	37	260	7.28	0.0	0
Flow Rate (CFM)	Flow Rate (CMM)			Static Pressure (Inch-H2O)	Static Pressure (Pa)																																														
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Temperature Range	-10C ~ +70C																																																		
Storage Temperature	-40C ~ +80C																																																		
Life (L10)	70,000 hours (40C)																																																		

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

*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)

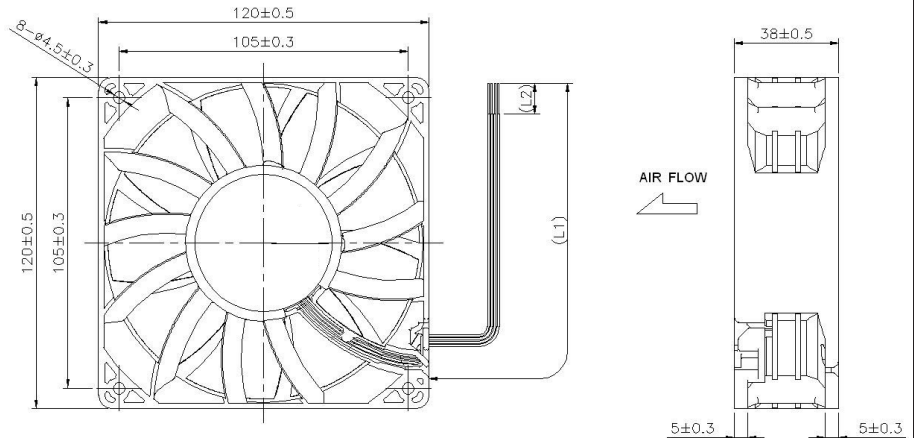
*Transistor Q1 at "OFF" position
Release Voltage..... V_{OH} =15V Max

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")

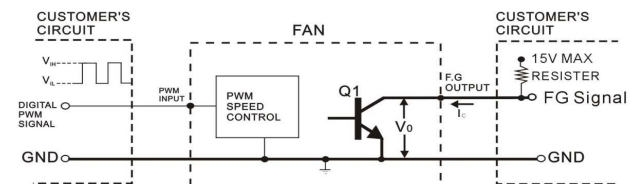


UNIT:mm

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	OD1238-12HBXJ10A
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----- $V_{IL} = 0\text{V} \sim 0.5\text{V}$

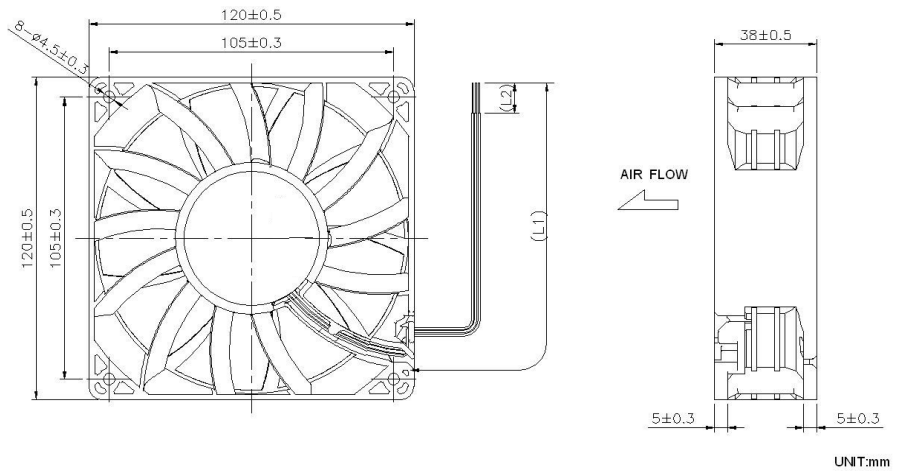
*PWM INPUT FREQUENCY----- $FPWM: 18\text{KHZ} \sim 30\text{KHZ}$

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")



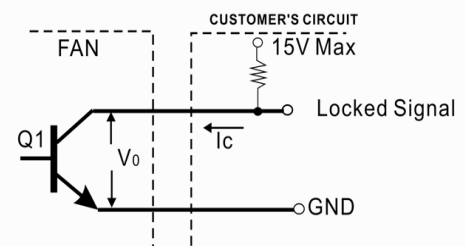
UNIT:mm

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

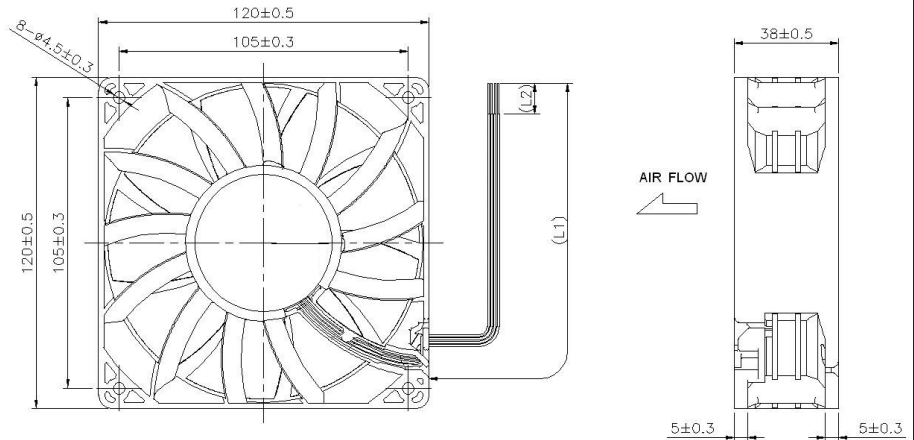
*Transistor Q1 at "OFF" position
Release Voltage..... V_{OH} =15V Max

OD1238 XJ Series



DC Fan 12V

120x38mm (4.7"x 1.5")

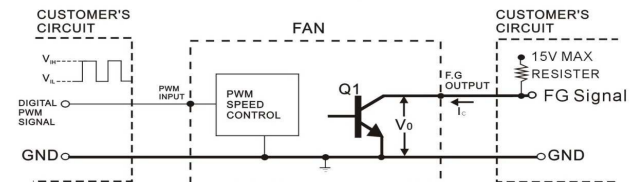


UNIT:mm

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)

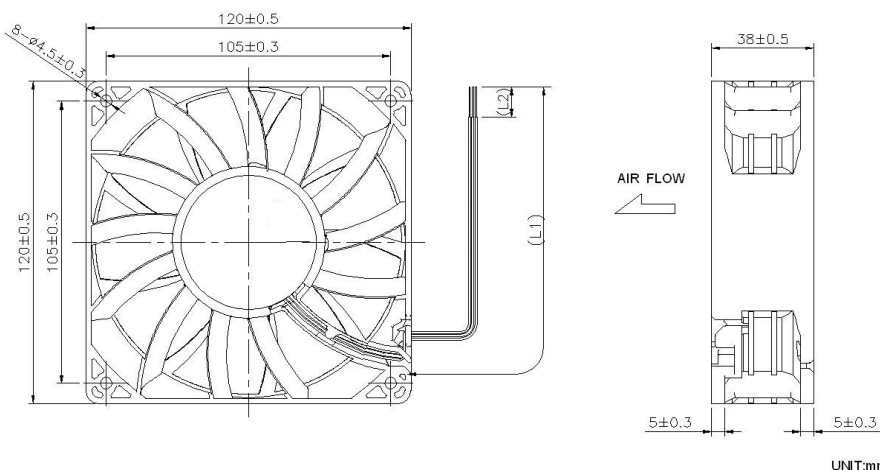


*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT----- $I_C = 10\text{mA MAX}$
SATURATION VOLTAGE----- $V_{OL} = 1\text{ V MAX}$

*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----- $V_{IL} = 0\text{V} \sim 0.5\text{V}$

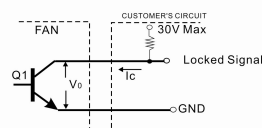
*PWM INPUT FREQUENCY----- $FPWM: 18\text{KHZ} \sim 30\text{KHZ}$



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

