# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

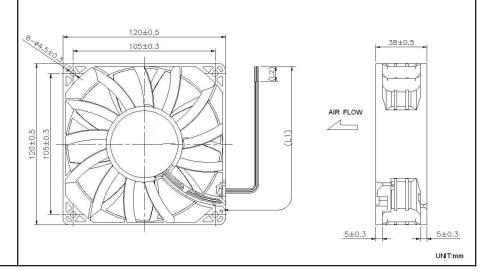




#### DC Fan 12V

120x38mm (4.7"x 1.5")

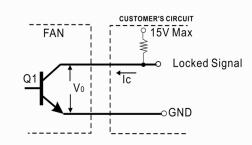




Frame & Impeller	PBT, UL94V-O plastic		Flow Rate (CMM)
Connecion	3x Lead wires *	Tachometer - Open Collector	0.00 0.73 1.46 2.18 2.91 3.64 4.37 5.10 5.82 6.55 7.28
Motor	Brushless DC, auto restart, polarity protected.		1.4 1.2 25
Bearing System	Dual ball bearing	Weight: ~ 375 g	1.1 24
Insulation Resistance	Min. 10M at 500VDC	* Connection	(C21 0.9
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	UL1007, 24AWG, ~320mm Red (+) Black (-)	0.6 0.5 16 16 16 16 16 16 16 16 16 16 16 16 16
Temperature Range	-10C ~ +70C	White Tachometer	0.3
Storage Temperature	-40C ~ +80C		0.2
Life (L10)	70,000 hours (40C)	m1	0.0 26 52 78 104 130 156 182 208 234 260 Flow Rate (CFM)

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 <sub>2</sub> O

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



\*Transistor Q1 at "ON" position Collector current.....I<sub>c</sub>=10mA Max Saturation Voltage.....V<sub>oL</sub>=1.0V Max (Between Collector and Emitter at I<sub>c</sub>=10mA) \*Transistor Q1 at "OFF" position Release Voltage.....V<sub>OH</sub>=15V Max



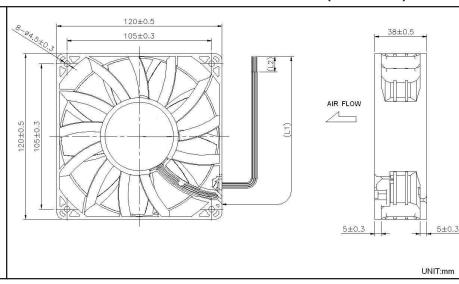




#### DC Fan 12V

120x38mm (4.7"x 1.5")

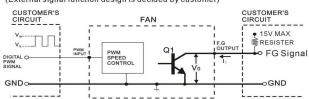




Frame & Impeller	PBT, UL94V-O plastic		Flow Rate (CMM)
Connecion	4x Lead wires *	Tachometer - Open Collector	0.00 0.73 1.46 2.18 2.91 3.64 4.37 5.10 5.82 6.55 7.28 1.5
Motor	Brushless DC, auto restart, polarity protected.	PWM	1.4         336           1.2         299
Bearing System	Dual ball bearing	Weight: ~ 375 g	1.1 261
Insulation Resistance	Min. 10M at 500VDC	* Connection	0.9 224 g
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	0.6 149 0 0.5 112
Temperature Range	-10C ~ +70C	Blue PWM	0.3 75
Storage Temperature	-40C ~ +80C	]	0.2 37
Life (L10)	70,000 hours (40C)	m1	0.0 26 52 78 104 130 156 182 208 234 260 Flow Rate (CFM)

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 <sub>2</sub> O

(External signal function design is decided by customer)



	*TRANSISTOR Q1 AT "ON" POSITION
	COLLECTOR CURRENT
ł	SATURATION VOLTAGEV <sub>ol</sub> =1 V MAX
	*TRANSISTOR Q1 AT "OFF" POSITION
	RELEASE VOLTAGEV $_{ m oH}$ =15 V MAX
	*DIGITAL PWM SPEED CONTROL POSITION
	PWM INPUT VOLTAGE HIGHV $_{H}$ =3V~5.5 V
l	PWM INPUT VOLTAGE LOWVIL = $0V{\sim}0.5V$
	*PWM INPUT FREQUENCYFPWM:18KHZ~30KHZ



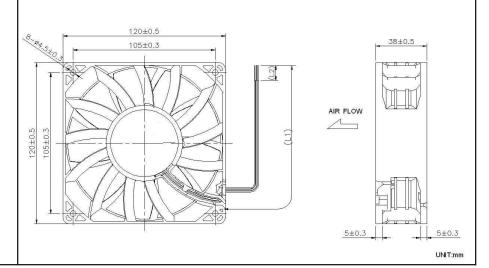




#### DC Fan 12V

120x38mm (4.7"x 1.5")





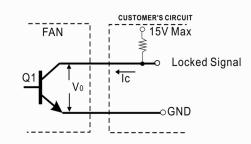
Frame & Impeller	PBT, UL94V-O plastic									ate (CM			
Connecion	3x Lead wires *	Tachometer - Open Collector		0.0 1.2 1.1	00 0.5	8 1. <sup>-</sup>	18 1.7	6 2.:	35 2.	.94 3.5	3 4.1	12 4.:	70 !
Motor	Brushless DC, auto restart, polarity protected.			1.0									
Bearing System	Dual ball bearing	Weight: ~ 375 g	50)	0.8		$\rightarrow$							
Insulation Resistance	Min. 10M at 500VDC	* Connection	e (Inch-H20)	0.7				$\overline{\ }$					-
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	Static Pressure	0.6 0.5 0.4									
Temperature Range	-10C ~ +70C			0.2									$\setminus$
Storage Temperature	-40C ~ +80C			0.1 0.0									
Life (L10)	70,000 hours (40C)	m1		0.0	) 2	4	12 63	3 8 1	4 1 Flow F	05 12 Rate (C	6 14 FM)	47 16	68

	1.1	269
	1.0	239
	0.8	209
ch-H20)	0.7	179
Static Pressure (Inch-H20)	0.6	179 149 119
tatic Pre	0.5	119
S	0.4	90
	0.2	60
	0.1	30
	0.0 0 21 42 63 84 105 126 147 168 189	210 0
	Flow Rate (CFM)	

5 20 5 00

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 <sub>2</sub> O

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



\*Transistor Q1 at "ON" position Collector current.....I<sub>c</sub>=10mA Max Saturation Voltage.....V<sub>oL</sub>=1.0V Max (Between Collector and Emitter at  $I_c$ =10mA) \*Transistor Q1 at "OFF" position Release Voltage.....V<sub>ort</sub>=15V Max



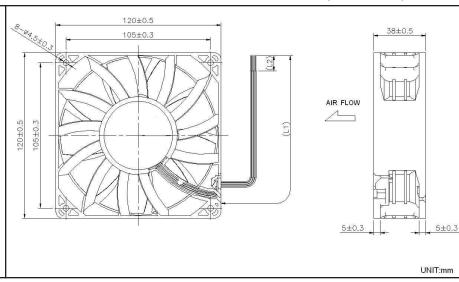




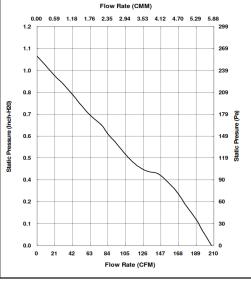
#### DC Fan 12V

120x38mm (4.7"x 1.5")



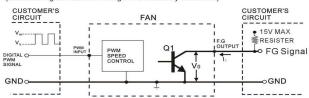


Frame & Impeller	PBT, UL94V-O plastic						
Connecion	4x Lead wires *	Tachometer - Open Collector		0.0 1.2	00 0.5	i9 1. <sup>.</sup>	18
Motor	Brushless DC, auto restart, polarity protected.	PWM		1.1			
Bearing System	Dual ball bearing	Weight: ~ 375 g	ସି	0.8			
Insulation Resistance	Min. 10M at 500VDC	* Connection	e (Inch-H	0.7			_
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	* Connection UL1007, 24AWG, ~320mm Red (+) Black (-) – White Tachometer	Static Pressur	0.6 0.5 0.4			
Temperature Range	-10C ~ +70C	Blue PWM		0.2			-
Storage Temperature	-40C ~ +80C			0.1			
Life (L10)	70,000 hours (40C)	m1		0.0	) 21	1 4	2



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 <sub>2</sub> O			

(External signal function design is decided by customer)



	*TRANSISTOR Q1 AT "ON" POSITION
	COLLECTOR CURRENTIc=10mA MAX
	SATURATION VOLTAGEV <sub>ol</sub> =1 V MAX
	*TRANSISTOR Q1 AT "OFF" POSITION
	RELEASE VOLTAGEV <sub>OH</sub> =15 V MAX
٦	*DIGITAL PWM SPEED CONTROL POSITION
	PWM INPUT VOLTAGE HIGHV⊮=3V~5.5 V
	PWM INPUT VOLTAGE LOWVIL=0V~0.5V
	*PWM INPUT FREQUENCYFPWM:18KHZ~30KHZ





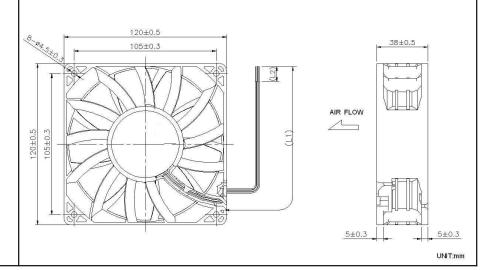
### OD1238-24HBXJ01A



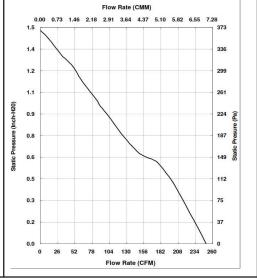
#### DC Fan 24V

120x38mm (4.7"x 1.5")





Frame & Impeller	PBT, UL94V-O plastic		
Connecion	3x Lead wires *	Tachometer - Open Collector	1.
Motor	Brushless DC, auto restart, polarity protected.		1.
Bearing System	Dual ball bearing	Weight: ~ 375 g	1. (02
Insulation Resistance	Min. 10M at 500VDC	* Connection	o. 0.
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer	Static Pressure (Inch-H20) .0 .0 .0
Temperature Range	-10C ~ +70C		0.
Storage Temperature	-40C ~ +80C		0.
Life (L10)	70,000 hours (40C)	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)

