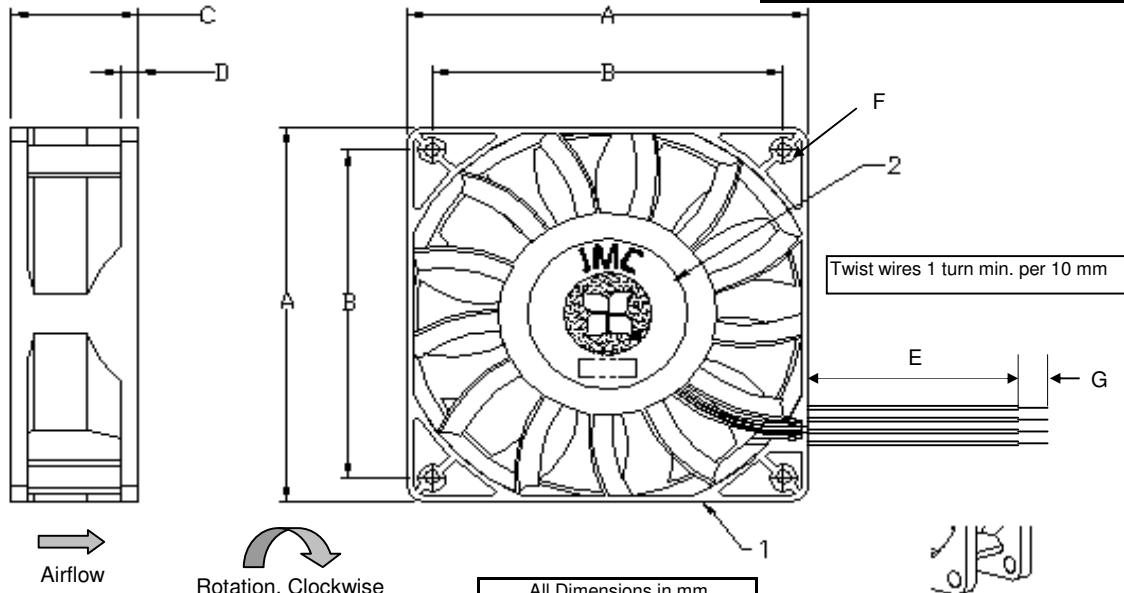
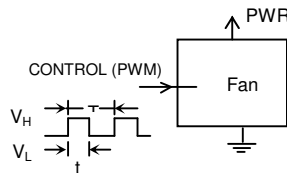
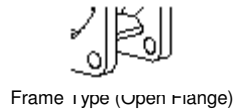


**NOT RELEASED FOR PRODUCTION**

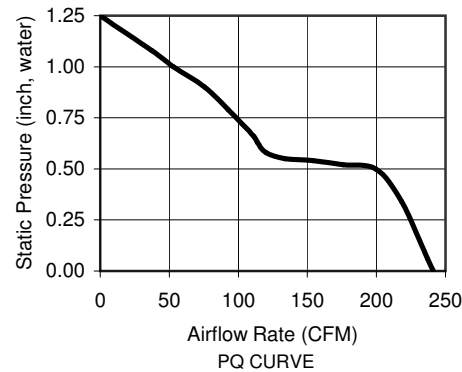


WIRE DESIGNATION	
GND (-)	Black
PWR (+)	Yellow
PWM	Blue
SIGNAL (TACH)	Green

All Dimensions in mm	
A	120 +/-0.5
B	105 +/-0.4
C	38.0 +/-0.2 / -1.0
D	5.0 +/- 0.3
E	300 +/- 30
F	8 X 4.5 +/- 0.3
G	6.4 +/- 1.0



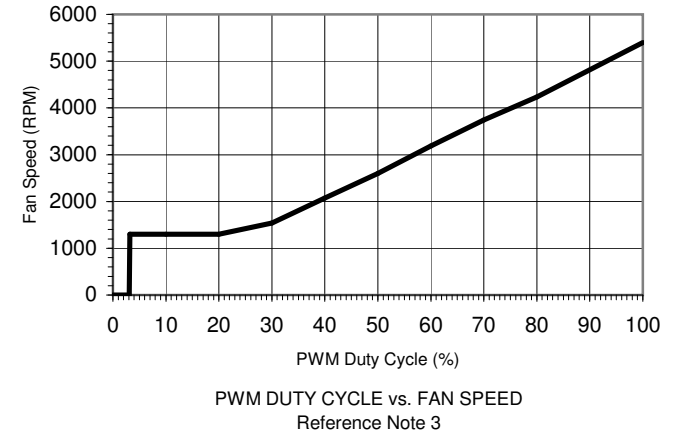
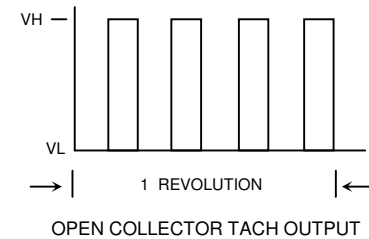
DUTY CYCLE =  $t/T \times 100\%$   
 PWM Fcy: 25KHz +/-5KHz  
 PWM\_High V<sub>H</sub>: 2.8V - 5.5V  
 PWM\_Low V<sub>L</sub>: 0V - 0.8V  
 PWM Pin Onen: Full Speed  
**FRONT END PWM CIRCUIT**



Revision History				
EC No	REV	Date	Description	Approvals
NA	X02	10/28/13	Rmvd Lw RPM Alarm Output	JE

**NOTES**

- BASE MODEL FAN - ANY CHANGES TO SPECIFICATION REQUIRES NEW PART NUMBER.
- THIS FAN AND ALL OF ITS COMPONENTS COMPLY WITH THE REQUIREMENTS OF RoHS DIRECTIVE 2011/65/EU
- THIS FAN USES MICROCONTROLLER DESIGN WITH INTERNAL CLOSED LOOP SPEED CONTROL FOR RPM STABILIZATION. RPM SHALL BE WITHIN 1% OF SPECIFIED RPM VS DUTY CYCLE SPEED.



	ITEM	SPECIFICATION	UNITS / NOTES
MECHANICAL	Speed	5400	RPM at 48 Vdc
	Airflow	242.0	CFM in Free Air
	Static Pressure	1.25	Inch, H <sub>2</sub> O
	Bearing Type	Ball, Dual	N/A
	Operating Temp	(-)10 to 70	Deg C
	Storage Temp	(-) 40 to 70	Deg C
	Noise Level	67.5	dBA Max at 1M
PHYSICAL	Blade Material	UL 94V-0	N/A
	Frame Material	UL 94V-0	N/A
	Wire Size	24	AWG
	Wire Type	UL 1007	N/A
	Wire Assembly	First Slot	N/A
	Regulatory Approvals	UL CUL TUV	N/A
ELECTRICAL	Net Weight	TBD	Grams
	Operating Voltage	38.4 - 57.6	Vdc
	Start up Voltage	NA	Vdc
	Start up PWM duty cycle	20	%
	Rated Current	0.87 (1.0 Max)	Amp
	Input Power	41.76 (48.0 Max)	Watts
	Tach Output	4	Pulses/Rev
	Polarity Protection	Yes	N/A
	Motor Protection	Yes	Type 2

2	1	Logo Label	L12003BU003	JMC
1	1	Fan Model	1238 - 48	JMC
Item	Qty	Description	Part Number	MFG

Austin Texas, USA Dong Guan, PRC		 The Fan Company	Fan, 120 x 38 FV, 48Vdc, Tach, PWM, MCU, DBB, Base Model	
Drawn By A. Aguirre			Size A1	Drawing Number 12003BU003
Engineer J. Elmo		Scale: None		Sheet 1 of 1

**PROPRIETARY NOTE**

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