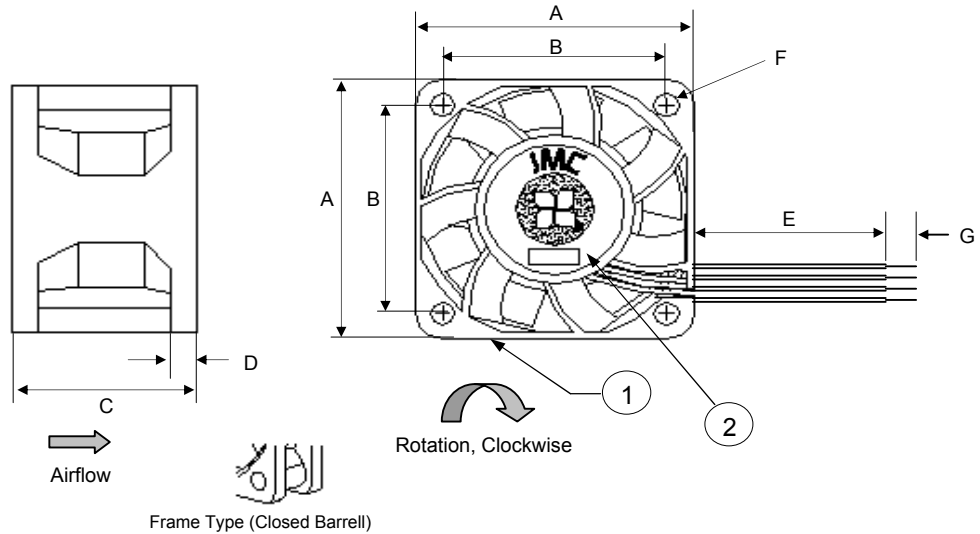


**NOT RELEASED FOR PRODUCTION**

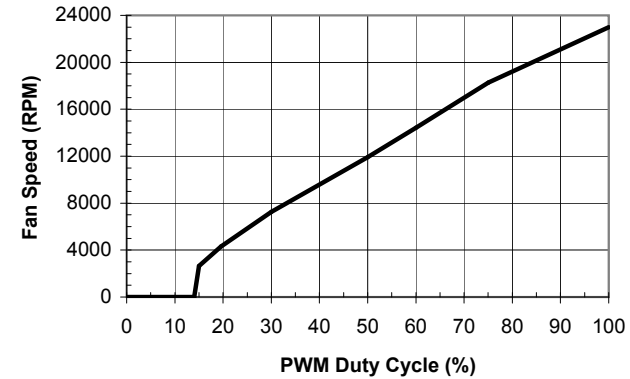
Revision History

EC No	REV	Date	Description	Approvals
N/A	X00	6/9/2015	Created Drawing	JE



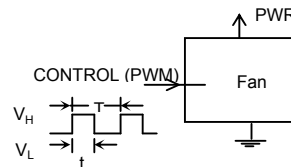
NOTES

- THIS FAN AND ALL OF ITS COMPONENTS COMPLY WITH THE REQUIREMENTS OF RoHS DIRECTIVE 2011/65/EU
- BASE MODEL FAN - ANY CHANGES TO SPECIFICATION REQUIRES NEW PART NUMBER AND DRAWING.
- RPM TOLERANCE IS +/-30% AT DUTY CYCLES BELOW 30%. AT DUTY CYCLES BETWEEN 30% AND 100%, RPM TOLERANCE CONVERGES LINEARLY TO 10%.

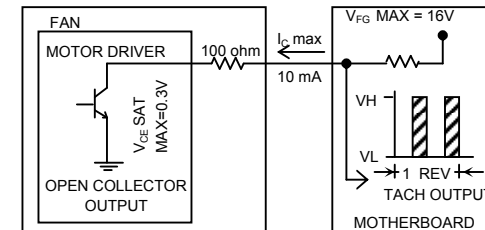
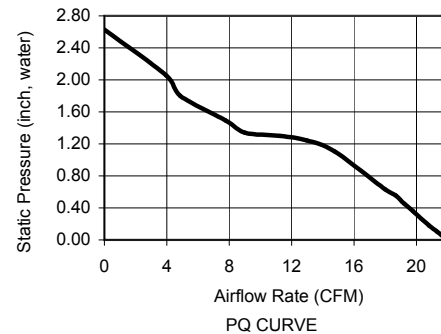


WIRE DESIGNATION	
FUNCTION	WIRE COLOR
GND (-)	Black
PWR (+)	Yellow
Signal (Tach)	Green
PWM	Blue

All Dimensions in mm	
A	38 +/- 0.5
B	30 +/-0.3
C	28 +/-0.5
D	4.0 +/-0.3
E	300 +/- 30
F	4 X 3.5 Dia +/- 0.3
G	6.4 +/- 1.0



DUTY CYCLE =  $t/T \times 100\%$   
 PWM Fcy: 25KHz +/-5KHz  
 PWM\_High  $V_H$ : 2.8V - 5.5V  
 PWM\_Low  $V_L$ : 0V - 0.8V  
 PWM Pin Open: Full Speed  
 Fan stops at 0% d.c  
 FRONT END PWM CIRCUIT



	ITEM	SPECIFICATION	UNITS / NOTES
MECHANICAL	Speed	23,000 +/- 10%	RPM at 12 Vdc
	Airflow	21.98	CFM in Free Air
	Static Pressure	2.63	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	58.2	dBA Max at 1M
PHYSICAL	Blade Material	UL 94V-0	N/A
	Frame Material	UL94V-0	N/A
	Wire Size	28	AWG
	Wire Type	UL 3265	N/A
	Wire Assembly	First Slot Only	N/A
ELECTRICAL	Regulatory Approvals	UL CUL TUV	N/A
	Net Weight	TBD	Grams
	Operating Voltage	10.8 - 13.2	Vdc
	Start up PWM duty cycle	30	%
	Rated Current	0.65 (0.75 Max)	Amp
	Input Power	7.80 (9.0 Max)	Watts
	Tach Output	2	Pulses/Rev
Polarity Protection	Yes	N/A	
Motor Protection	Yes	Type 2	

2	1	Logo Label	L03801B0004	JMC
1	1	Fan Model	3828-12	JMC
Item	Qty	Description	Part Number	MFG
Austin Texas, USA Dong Guan, PRC		Fan, 38x28 FV, 12Vdc PWM, Tach, DBB, Base Model		
Drawn By A. Aguirre		Size A1	Drawing Number 03801B0004	Rev X00
Electrical Engineer J. Elmo		Scale: None		Sheet 1 of 1

PROPRIETARY NOTE

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