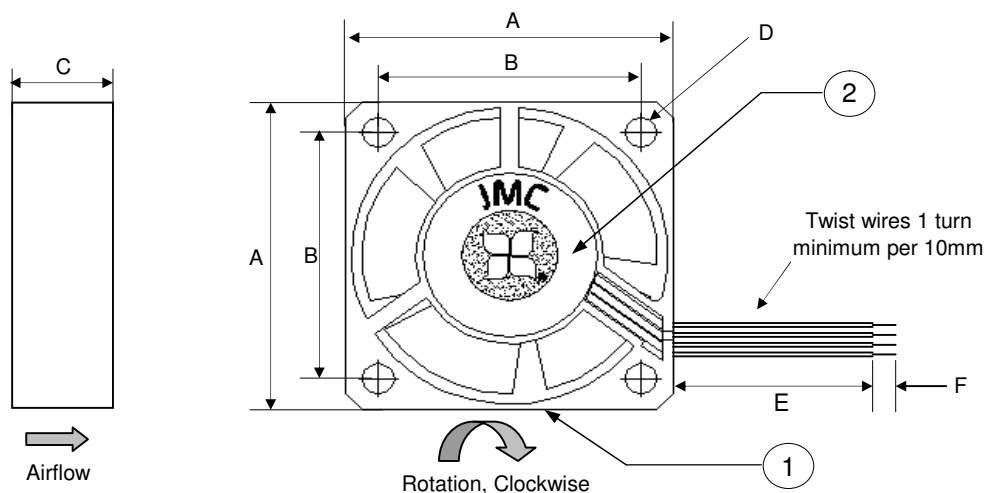
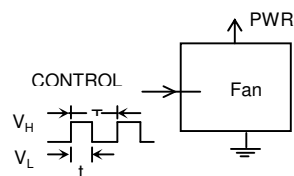


NOT RELEASED FOR PRODUCTION

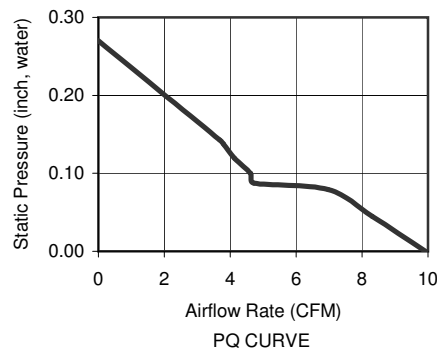
Frame Type (Closed Barrell)

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

All Dimensions in mm	
A	40 +/- 0.5
B	32 +/- 0.3
C	10.5 +/- 0.5
D	4 x 3.5 +/- 0.3
E	300 +/- 25
F	6.4 +/- 1.0



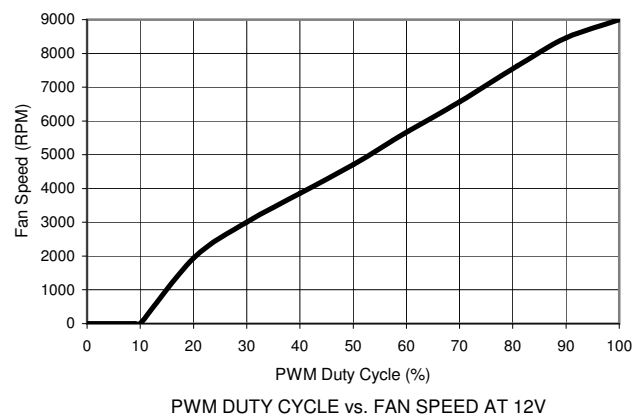
DUTY CYCLE = $t/T \times 100\%$
 PWM Fcy: 25KHz +/- 5KHz
 PWM_High V_H : 2.8V - 5.5V
 PWM_Low V_L : 0V - 0.8V
 PWM Pin Open: Full Speed
 FRONT END PWM CIRCUIT



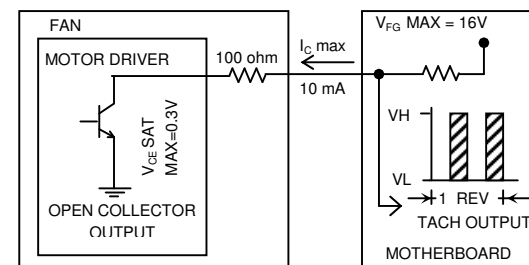
Revision History				
EC No	REV	Date	Description	Approvals
NA	X00	10/26/2009	Created Dwg.	DG
NA	X01	10/10/2013	Updt. Speed	JE

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.
- RPM TOLERANCE IS +/-30% AT DUTY CYCLES BELOW 30%. AT DUTY CYCLES BETWEEN 30% AND 100%, RPM TOLERANCE CONVERGES LINEARLY TO 10%.



PWM DUTY CYCLE vs. FAN SPEED AT 12V



TACH OUTPUT ELECTRICAL CHARACTERISTICS

	ITEM	SPECIFICATION	UNITS / NOTES
MECHANICAL	Speed	9000 +/- 10%	RPM at 12 Vdc
	Airflow	9.92	CFM in Free Air
	Static Pressure	0.27	Inch, H ₂ O
	Bearing Type	Dual Ball	N/A
	Operating Temp	(-)10 to 70	Deg C
	Storage Temp	(-) 40 to 70	Deg C
	Noise Level	36.0	dBA Max at 1M
PHYSICAL	Blade Material	UL 94V-0	N/A
	Frame Material	UL 94V-0	N/A
	Wire Size	28	AWG
	Wire Type	UL 1007	N/A
	Wire Assembly	First Slot	N/A
ELECTRICAL	Regulatory Approvals	UL CUL TUV	N/A
	Net Weight	16.0	Grams
	Operating Voltage	10.8-13.2	Vdc
	Start Up PWM Duty Cycle	30	%
	Rated Current	0.10 (0.11 Max)	Amp
	Input Power	1.2 (1.32 Max)	Watts
	Tach Output	2	Pulses/Rev
	Polarity Protection	Yes	N/A
	Motor Protection	Yes	Type 2

2	1	Logo Label	L04000B0004	JMC
1	1	Fan Model	4010 - 12	JMC
Item	Qty	Description	Part Number	MFG
Austin Texas, USA Dong Guan, PRC		Fan, 40 x 10 mm, 12Vdc, PWM, DBB, Base Model		
Drawn By D Ganner		Size A1	Drawing Number 04000B0004	Rev X01
Engineer J. Elmo		Scale: None Sheet 1 of 1		

PROPRIETARY NOTE

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