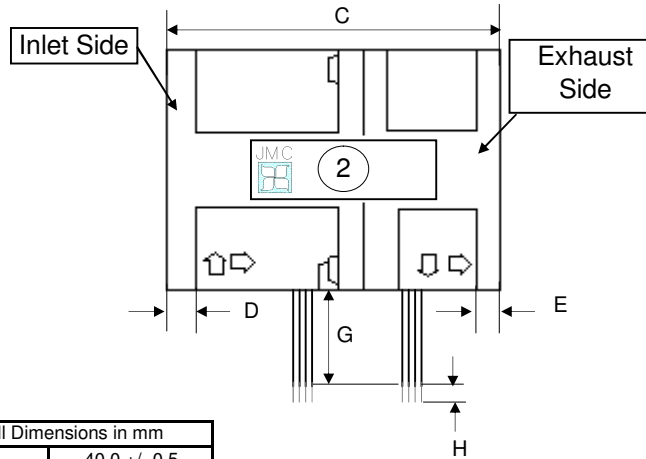
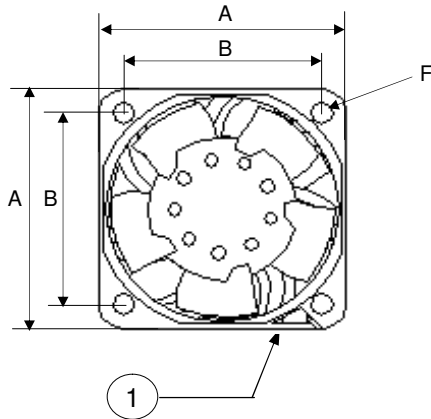


RELEASED FOR PRODUCTION

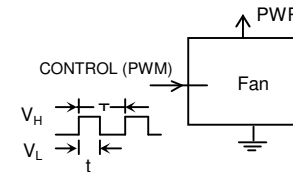


| WIRE DESIGNATIONS | |
|-------------------|----------|
| WIRE COLOR | FUNCTION |
| Black | GND (-) |
| Yellow | PWR (+) |
| Green | TACH |
| Blue | PWM |

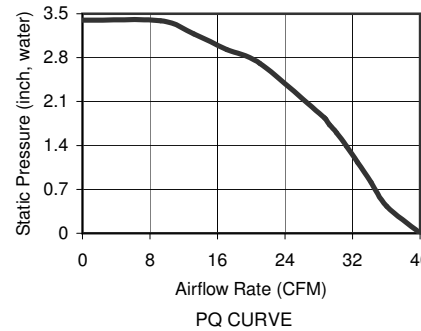
| All Dimensions in mm | |
|----------------------|-----------------|
| A | 40.0 +/- 0.5 |
| B | 32.0 +/- 0.5 |
| C | 56.0 +/- 1.0 |
| D | 4.8 +/- 0.3 |
| E | 4.0 +/- 0.3 |
| F | 8 X 3.5 +/- 0.3 |
| G | 300 +/- 30 |
| H | 6.4 +/- 1.0 |



Frame Type (Open Flange)



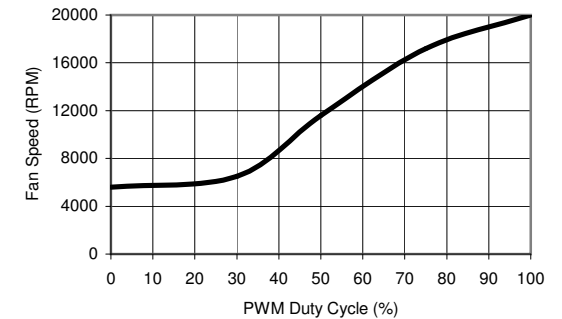
DUTY CYCLE = $t/T \times 100\%$
 PWM Fcy: 25KHz +/- 5KHz
 PWM_High V_H : 2.8V - 5.5V
 PWM_Low V_L : 0V - 0.8V
 PWM Pin Open: Full Speed
 FRONT END PWM CIRCUIT



| Revision History | | | | |
|------------------|-----|----------|--------------------------|-----------|
| EC No | REV | Date | Description | Approvals |
| 110880 | C | 2/19/13 | Updt. Static Pressure | JE |
| 110911 | D | 11/12/13 | Updt. Note 1/PWM Circuit | JE |

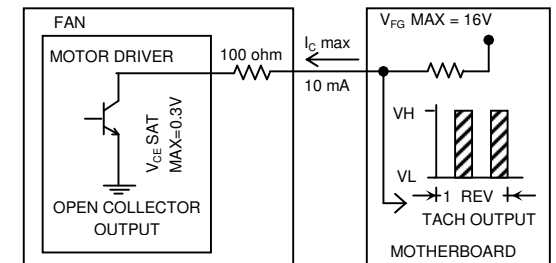
NOTES

- 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.
- UTILIZATION OF VIBRATION ISOLATION GROMMETS OR MOUNTS IS RECOMMENDED FOR FAN SPEED HIGHER THAN 15,000 RPM.
- RPM TOLERANCE IS +/- 30% AT DUTY CYCLES BELOW 30%. AT DUTY CYCLES BETWEEN 30% AND 100%, RPM TOLERANCE CONVERGES INFINITELY TO 10%.



PWM DUTY CYCLE vs. FAN SPEED
AIR INLET FAN

| | ITEM | SPECIFICATION | UNITS / NOTES |
|------------|-------------------------|--------------------------------|------------------------|
| MECHANICAL | Speed | 20000 +/- 10% | RPM at 12 Vdc |
| | Airflow | 40.0 | CFM in Free Air |
| | Static Pressure | 3.4 | Inch, H ₂ O |
| | Bearing Type | Dual Ball | N/A |
| | Operating Temp | (-)10 to 60 | Deg C |
| | Storage Temp | (-)40 to 70 | Deg C |
| | Noise Level | 68.0 | dBA Max at 1M |
| | Blade Material | UL 94V-0 | N/A |
| | Frame Material | UL 94V-0 | N/A |
| | Wire Size | 28.0 | AWG |
| PHYSICAL | Wire Type | UL 1061 | N/A |
| | Wire Assembly | Single Slot, Inlet and Exhaust | N/A |
| | Regulatory Approvals | UL CUL TUV | N/A |
| | Net Weight | 93.0 | Grams |
| ELECTRICAL | Operating Voltage | 10.8 - 12.6 | Vdc |
| | Start up voltage | NA | Vdc |
| | Start up PWM duty cycle | 30 | % |
| | Rated Current | 3.10 (3.60 Max.) | Amp |
| | Input Power | 37.2 (43.2 Max.) | Watts |
| | Tach Output | 2.0 | Pulses/Rev |
| | Polarity Protection | Yes | N/A |
| | Motor Protection | Yes | Type 2 |



TACH OUTPUT ELECTRICAL CHARACTERISTICS

| | | | | |
|------|-----|-------------|-------------|-----|
| 2 | 1 | Logo Label | L04005B0004 | JMC |
| 1 | 1 | Fan Model | 404056-12 | JMC |
| Item | Qty | Description | Part Number | MFG |

| | | | | |
|-------------------------------------|---------------------|--|------------------------------|----------|
| Austin Texas, USA Dong Guan, PRC | The Fan Company | Fan, 40x40x56 mm, 12Vdc Dual Ball, Base Model | | |
| Mechanical Engineer S. Apsangi | | Size A1 | Drawing Number 04005B0004 | Rev D |
| Electrical Engineer J. Elmo | Scale: None | | Sheet 1 of 1 | |

PROPRIETARY NOTE

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