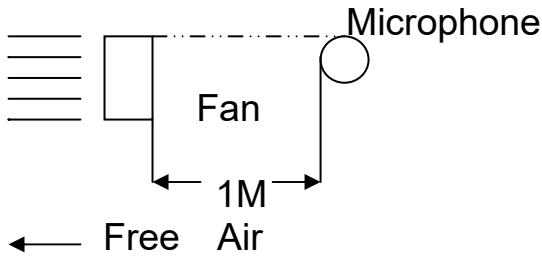


# COOLCOX CORPORATION

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## 1.0 一般規格 (General Specification)

|    |                           |  |
|----|---------------------------|--|
| 1  | 型號<br>Model No.           | VC-AL4009  |
| 2  | Heat Sink                 | Aluminium (Black)  |
| 3  | Mounting Hole             | 59MM   |
| 4  | Heatsink Dimension        | 41MM(L) x 40.3MM(W) x 9.8MM(H)   |
| 5  | Fan Dimension             | 40*40*10MM   |
| 6  | 電壓 Voltage                | 12V (10.8-13.2V)   |
| 7  | 起動電壓<br>Start voltage     | 6.0V (POWER ON/OFF)  |
| 8  | 消耗功率<br>Power consumption | 1.2W   |
| 9  | 額定電流<br>Rated current     | 0.10A(Safety)  |
| 10 | 轉速<br>Speed               | 6,200±10%R.P.M.<br>At 25°C,After 3~5 minutes rotating<br>(Fan alone).                          |
| 11 | 最大風量<br>Max air flow      | 7.0CFM   |
| 12 | 靜壓<br>Air Pressure        | 3.7 MM-H <sub>2</sub> O  |
| 13 | 噪音<br>Noise               | 28Db-A<br> |
| 14 | Thermal Tape              | Thermflow T725 (35x35mm)   |

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## 2.0 主要材料/零件規格 (Main Materials/Parts Specification)

|   |  |   |
|---|--|---|
| 1 | 塑膠材料/扇葉、框、絕緣套<br>Plastic material/Blade/Frame<br>Housing Of Insulation | a,PBT<br>b.Black frame & Blade<br>7 blades            |
| 2 | 軸承 (Bearing)   | 2-Ball Bearing  |
| 3 | 霍尔感应 IC  | TELFORD<br>276/277                                    |
| 4 | 印刷線路板<br>P.C.B   | a;單層印刷線路板<br>Single-layer PCB                         |
| 5 | 漆包線<br>ENAMELED WIRE   | 2UEW  |
| 6 | 矽鋼片<br>SILICON STEEL STRIP   | H23   |
| 7 | 引線 (Lead Wire)   | UL1571 28# L=45 MM<br>(+) Red (-)Black<br>(FG) Yellow |
| 8 | 端子 (Connector)   | JST ZHR-3   |

## 3.0 電性規格 (Electrical Specifically)

|   |                                  |  |
|---|----------------------------------|--|
| 1 | 絕緣阻抗<br>Insulation<br>Resistance | 10MΩ/裸線與外框間測量, 500VDC/min<br>10MΩ/between unshackled wire and frame at<br>500VDC/min                 |
| 2 | 絕緣耐壓<br>Dielectric Strength      | 5Ma Max./導線與外框間測量, 500VAC/min<br>5Ma Max./Measured between lead wire(+)and<br>frame at<br>500VAC/min |
| 3 | 預期壽命<br>Expected Life            | 50,000 小時,25°C<br>50,000 hrs,25°C  |
| 4 | 運轉方向<br>Rotating Direction       | 逆時針<br>Anti-Clockwise  |
| 5 | 極性保護<br>Polarity Protect         | VCC 與 GND 反接時, 電路不燒毀<br>Circuit is protected when VCC&GND<br>are exchanged                           |
| 6 | 極數<br>No. of pole                | 4 極<br>4Poles  |

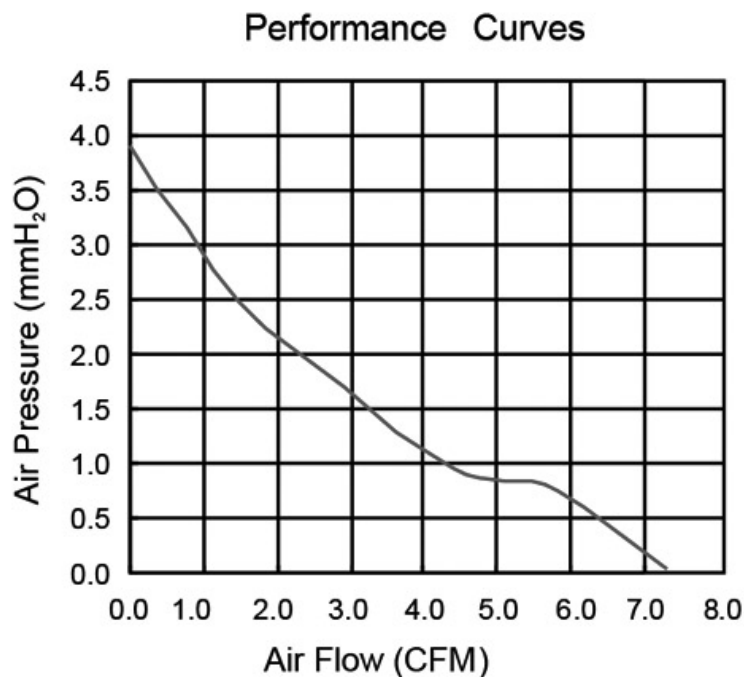
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## 4.0 環境測試 (Environmental Specification)

|   |                                     |   |
|---|-------------------------------------|---|
| 1 | 運轉溫/濕度範圍<br>Operating Temp .Range   | 溫度/Temperature:-10°C~+70°C<br>濕度/Humidity:35%~95%RH   |
| 2 | 保存溫/濕度範圍圍<br>Store Temperature      | 溫度/Temperature:-40°C~+70°C<br>濕度/Humidity:35%~85%RH   |
| 3 | 耐濕性<br>Humidity                     | 電氣規格依據 MIL-STD 202F Method 103B<br>濕度：95%RH 溫度：40±2°C   |
| 4 | 熱沖擊<br>Thermal Shock                | 電氣規格依據 MIL-STD 202F Method 107D<br>Per MIL-STD 202F Method 107D,Condition D   |
| 5 | 絕緣階段<br>Insulation Shock            | UL: A 種<br>UL: Class A  |
| 6 | 包裝耐振動試驗<br>Packing Vibration Test   | 包裝後, XYZ 三方向施 1.1G load vibration test for 30min .No serious damaged  |
| 7 | 包裝耐沖擊試驗<br>Packing Shock Proof Test | 捆包後, 高 60 公分, 1 棱角 3 邊 6 面自然落下, 無嚴重損壞.<br>1coner,3edges, 6faces natural drop from 60cm high packing<br>No serious damaged |

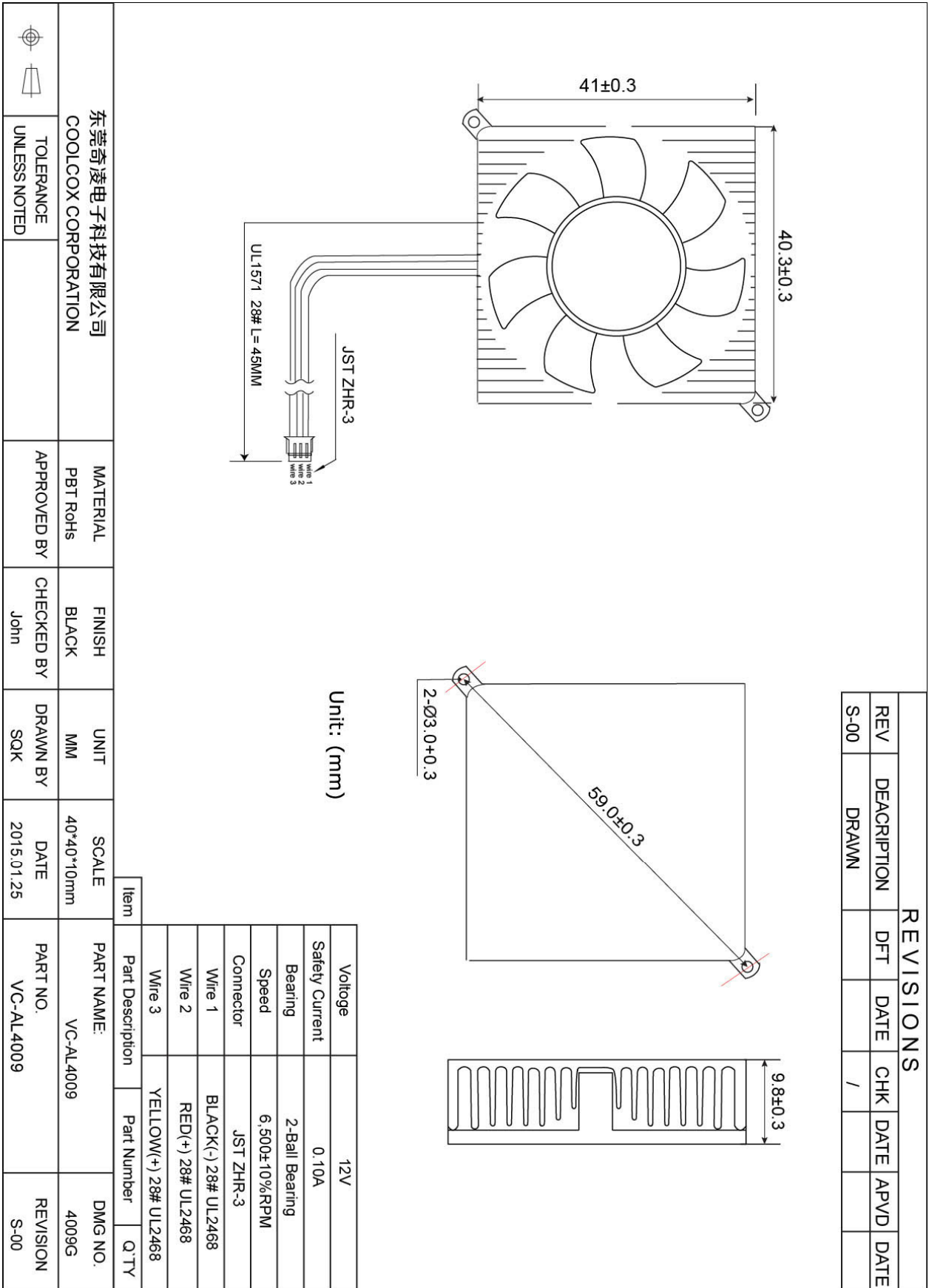
## 5.0 风压&风量 (Performance Curves)



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## 6. Part Dimension Drawing



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## 6.0 Thermal Tape Dimension Drawing

