



SPECIFICATION FOR APPROVAL

CUSTOMER: CHIP

EVERCOOL MODEL NO: EC8025H24B

CUSTOMER MODEL NO: EC8025H24B

DESCRIPTION: DC24V FAN

| | |
|-------------------------------------|-----------------|
| APPROVED BY (AUTHORISED) | APPROVED |
| | Alex |
| | CHECKED |
| | Xiongwei |
| | DRAWN |
| | Chenjie |
| | SALES |
| | Richard |

* Please confirm your acceptance by return fax or mail.

| SPEC NO | ISSUE DATE | EDITION | REVISED DATE |
|-------------|------------|---------|--------------|
| 20230505G02 | 2023/5/5 | A0(F2) | 2023/5/5 |

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

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I. GENERAL SPECIFICATION

| Item | Specification |
|----------------------------|---------------------------------|
| 1.Part NO. | EC8025H24B |
| 2.Outline Dimension | 80*80*25 |
| 3.Rated Voltage | 24 VDC |
| 4.Starting Voltage | 12 VDC |
| 5.Operating Voltage Range | 12 VDC~ 26 VDC |
| 6.Rated Current* | 0.14 A |
| 7.Rated Power Consumption* | 3.36 W |
| 8.Rated Speed* | 3000 RPM \pm 15% |
| 9.Max. Airflow** | 36.48 CFM(ft ³ /min) |
| 10.Max. Static Pressure** | 0.14 In-H ₂ O |
| 11.Noise Level*** | <33 dB(A) |
| 12.Life Expectancy | 50000 hrs at 25°C |
| 13.No of Polarity | 4 Poles |
| 14.Direction of Rotation | Counter-Clockwise |

Noted:

***Input Current Speed Power Consumption**

Measured after continuous 30 minutes operation at rated voltage in free air at ambient temperature of 25 °C, 65% relative humidity

****Performance**

Measured with use of double chamber. The value are recorded when the fan speed is stabilized at rated voltage.

*****Noise Level**

Measured at rated voltage in a semi-anechoic chamber with background noise below than 20 dB(A). The measuring distance is in one meter from microphone to inlet of the fan.

II. ELECTRICAL SPECIFICATION

| Item | | Specification |
|-------------------------|-------|---|
| 1.Polarity Protection | ✓ YES | Be capable of endurance when Vcc & GRD are exchanged |
| | NO | |
| 2.Auto restart | ✓ YES | Locked motor protection |
| | NO | |
| 3.Insulation Resistance | | 10MΩ/b/w unshielded wire and frame at 500 VDC/min |
| 4.Dielectric Strength | | 5Ma Max./Measured b/w lead wire and frame at 500VAC/min |

III. MAIN MATERIALS / PARTS SPECIFICATION

| Item | | Specification | | | | |
|--------------------------|---|-----------------------------------|-----|------|----|-----|
| 1.Materials of Frame | | Thermoplastic PBT of UL 94V-0(BK) | | | | |
| 2.Materials of Fan Blade | | | | | | |
| 3.Bobbin | | | | | | |
| 4.Bearing | ✓ | Dual ball bearing | | | | |
| | | 1 ball & 1 sleeve bearing | | | | |
| | | Sleeve bearing | | | | |
| | | EL bearing | | | | |
| 5.Lead wire | ✓ | Red (+) | UL# | 1007 | 26 | AWG |
| | ✓ | Black (-) | UL# | 1007 | 26 | AWG |
| | | | | --- | | |
| | | | | --- | | |
| 6.Connector | | 2510 2P | | | | |

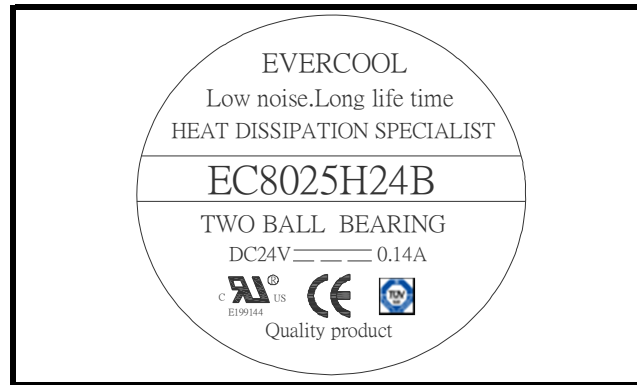
IV. ENVIRONMENT SPECIFICATION

| Item | Specification |
|-------------------------|--|
| 1.Operation Temperature | -10°C ~+70°C/66%(RH), high / low temperature test for 24 hours, temperature change: 30°C /hours. |
| 2.Storage Temperature | -40°C ~+70°C/66%(RH), high / low temperature test for 24 hours, temperature change: 30°C /hours. |

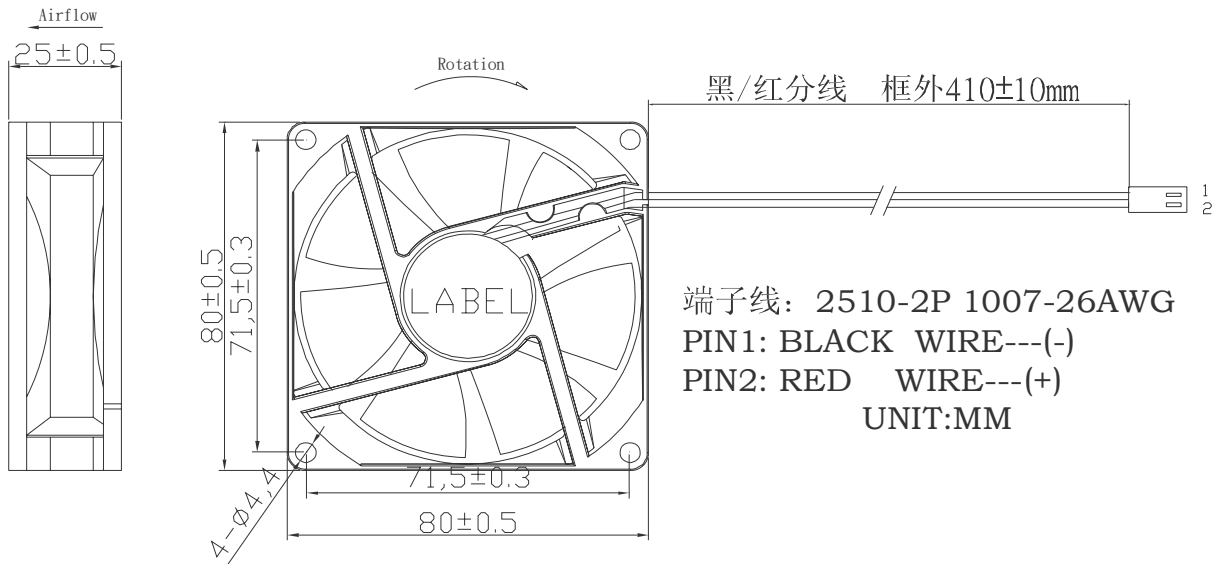
V. DROPPING TEST

Prepared in minimum packing condition, fan will withstand one drop each on three surfaces from 30 cm height onto a 10mm thick hard wooden board.

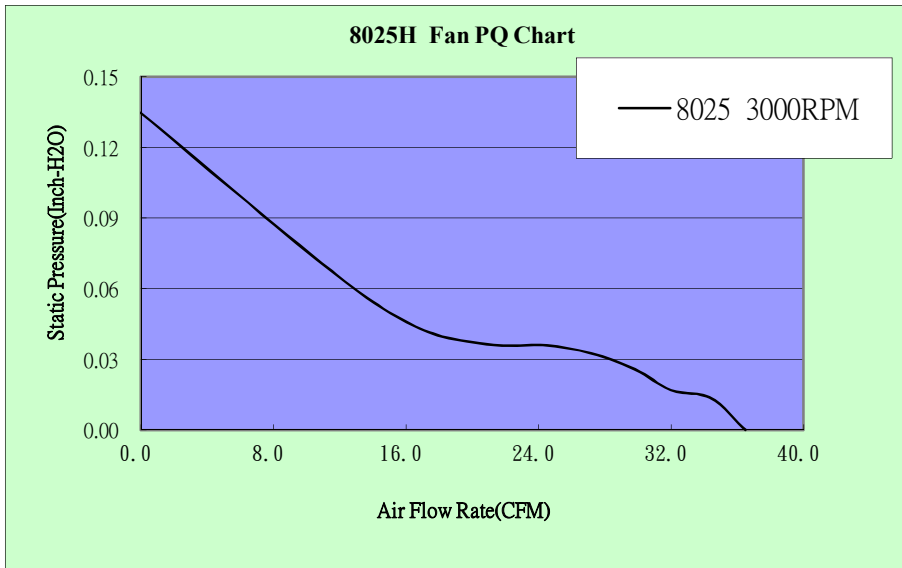
VI. LABEL MARKING



VII. OUTLINE DIMENSION



IX. P/Q Performance



| | Q(cfm) | Ps(InchH2o) |
|----|--------|-------------|
| 1 | 0.000 | 0.135 |
| 2 | 12.082 | 0.064 |
| 3 | 17.035 | 0.043 |
| 4 | 21.348 | 0.036 |
| 5 | 24.271 | 0.036 |
| 6 | 27.167 | 0.033 |
| 7 | 29.820 | 0.026 |
| 8 | 32.006 | 0.017 |
| 9 | 34.410 | 0.014 |
| 10 | 36.480 | 0.000 |