



SPECIFICATION FOR APPROVAL

CUSTOMER: 碁芯科技(深圳) 有限公司.

EVERCOOL MODEL NO: EC4010H12B

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DESCRIPTION: DC12V FAN

APPROVED BY (AUTHORISED)	APPROVED
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	SALES
	Richard

* Please confirm your acceptance by return fax or mail.

SPEC NO	ISSUE DATE	EDITION	REVISED DATE
20260629A02	2026/6/29	A0	2026/6/29

THE PRODUCTION ACCORD WITH EUROPE UNION ROHS STANDARD

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I. GENERAL SPECIFICATION

Item	Specification
1.Part NO.	EC4010H12B
2.Outline Dimension	40*40*10.4
3.Rated Voltage	12 VDC
4.Starting Voltage	7 VDC
5.Operating Voltage Range	7 VDC~ 13.8 VDC
6.Rated Current*	0.08 A
7.Rated Power Consumption*	0.96 W
8.Rated Speed*	5500 RPM±15%
9.Max. Airflow**	5.75 CFM(ft3/min)
10.Max. Static Pressure**	0.13 In-H2O
11.Noise Level***	<23 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		Uni ball bearing				
	✓	Dual ball bearing				
		1 ball & 1 sleeve bearing				
		Sleeve bearing				
		EL bearing				
5.Lead wire	✓	Red (+)	UL#	1007	28	AWG
	✓	Black (-)	UL#	1007	28	AWG

6.Connector		2510 2P				

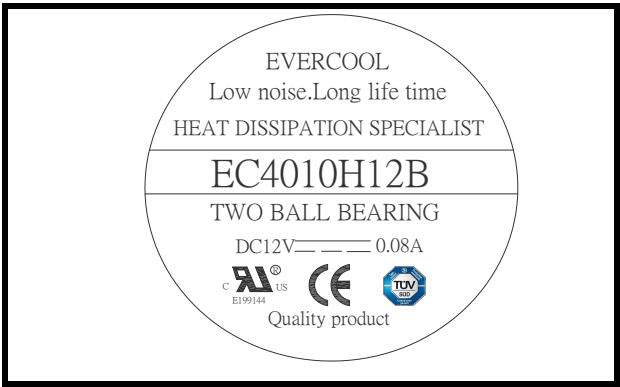
IV. ENVIRONMENT SPECIFICATION

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

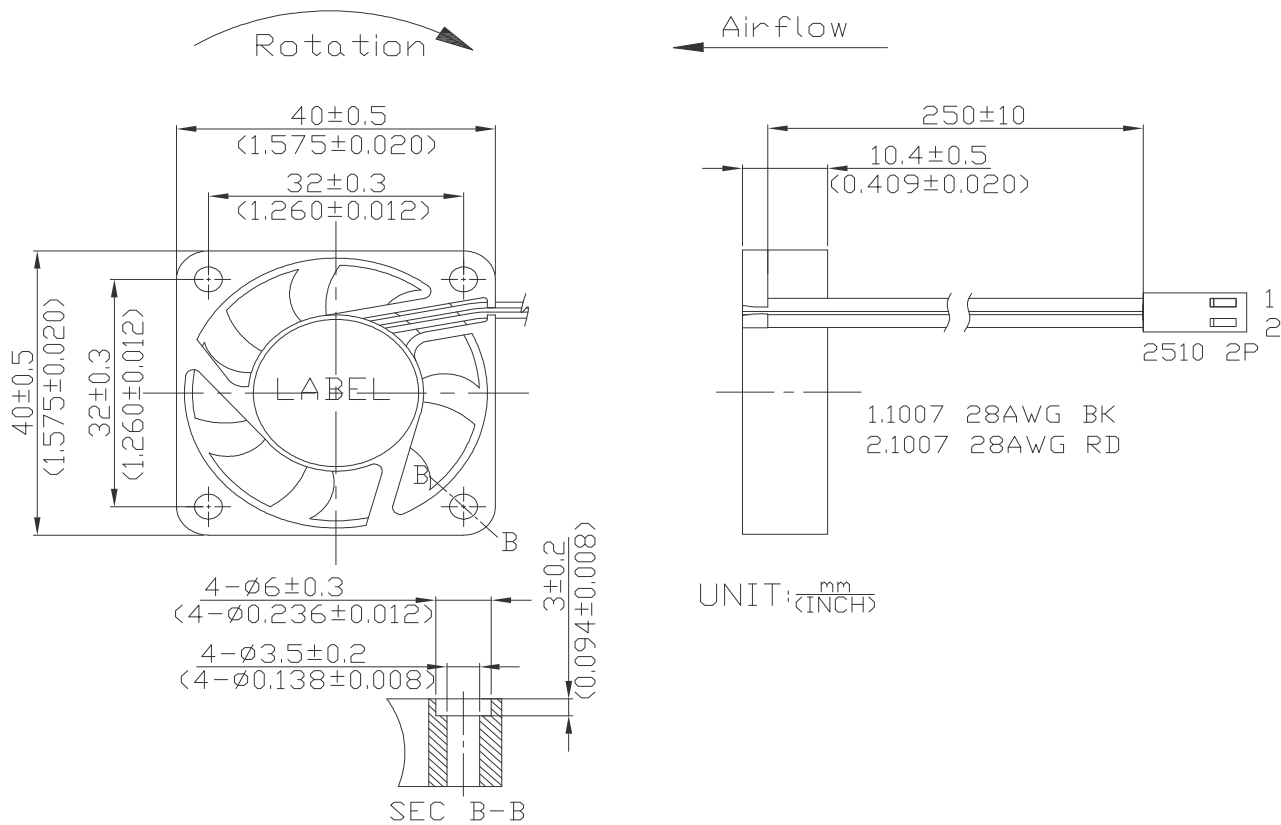
V. DROPPING TEST

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.

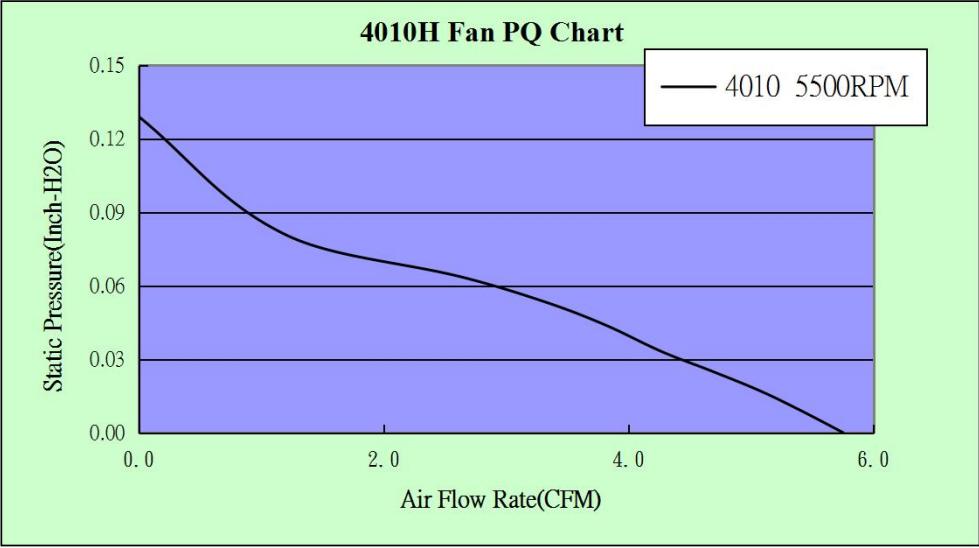
VI. LABEL MARKING



VII. OUTLINE DIMENSION



VIII. P/Q Performance



	Q(cfm)	Ps(InchH2o)
1	0.000	0.129
2	1.191	0.081
3	2.680	0.063
4	3.340	0.053
5	3.808	0.044
6	4.275	0.033
7	4.686	0.025
8	5.077	0.017
9	5.408	0.009
10	5.753	0.000