<section-header><section-header><section-header>         SPECIFICATION FOR APPROVAL         MODEL NO.      </section-header></section-header></section-header>	
DESCRIPTION : SPEC NO. : <u>SA-0120141002001</u> ISUE DATE : 2019.05.29 REVISION : D THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIR! UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	SPECIFICATION FOR APPROVAL
SPEC NO. : <u>SA-0120141002001</u> ISSUE DATE : 2019.05.29 REVISION : D THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIR! UNLESS OTHERWISE REVISED THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	MODEL NO. :
ISSUE DATE : 2019.05.29 REVISION : D THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY. KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	DESCRIPTION :
ISSUE DATE : 2019.05.29 REVISION : D THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	SPEC NO. : SA-0120141002001
THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY.         UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR         ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY         KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY         SIGNED AS YOUR CONFIRMATION OF SAME.	
UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	REVISION : D
SIGNED AS YOUR CONFIRMATION OF SAME.	UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR
<ul> <li>研發處 少</li> <li>2019.05.29</li> <li>發行章</li> </ul>	
	<ul> <li>研發處 少</li> <li>2019.05.29</li> <li>發行章</li> <li>      近行章     近いていたいでは、     の方     の方     の方     の方     の方     の方     の方     の方     の方     の</li></ul>
	ADDA CORPORATION

DATA-SHEET

Engineering

Printed On:

19/05/29

BRUSHLESS AXIAL COOLING FANS

Customer	:					Ref: (RoHS)		
Adda Model No	: AB3505LX	K-QB0	P.S:	(TX)				
Samples attached	: Piece(s),							
Safety Approval	: UL,CUL,TUV,CE			TUV:EN 60950-1:2006+A11+A1+A12+A2				
				UL:UL507 CE:EN 61000-6-1:2007				
				EN 6100	0-6-3:2007+A1			
Specifications								
ITEM S	PECIFICATIO	N / CONDITIO	<u> </u>					
DIMENSIONS	: 35x35x7.5	5 mm						
BEARING TYPE	: HYPRO							
RATED VOLTAGE	: 5.0	VDC						
OPERATING VOLTAGE RANGE	: 4.5	VDC –	5.5	VDC				
START-UP VOLTAGE	: 4.0	VDC , NC	RMAL					
RATED CURRENT	: 0.10	Amp +	10	%MAX				
RATED POWER	: 0.50	Watt						
RATED SPEED	: 5500	RPM ±	20	%				
(IN FREE AIR AT RATED VOLTAGE)								
AIR FLOW	: 0.900	CFM (min	.: 0.720	CFM)				
AIR FLOW	: 0.025	CMM (min	.: 0.020	CMM)				
		(IN FREE AIR	AT RATE	D VOLTA	AGE)			
STATIC AIR PR <mark>ESSUR</mark> E	: 0.126	Inch H <sub>2</sub> O	(min.:	0.080	Inch H <sub>2</sub> O)			
STATIC AIR PRE <mark>SSURE</mark>	: 3.200	mm H <sub>2</sub> O	(min.:	2.048	mm H <sub>2</sub> O)			
(IN FREE AIR AT RATED VOLTAGE)								
NOISE LEVEL	: 22.0	dB (A) (max	.: 26.0	dB(A))				
MOTOR PROTECTION	: BY	IC						
POLARITY PROTECTION	: NO							
CONNECTION LEAD TYPE	: WIRE, A	WG# 28						
LIFE EXPECTANCY	: 50000	Hours at	<b>25</b> ℃	/ 65%	RH			
NET WEIGHT	: 13	Gram.						
PACKING	: 480	pcs. Per Exp	ort Carton					
					10 19 1			
Unless otherwise stated, the relative humidity is 65%, and the temperature is $25^{\circ}$								
Unless otherwise stated, the relative humidity is 65%, and the temperature is 25℃ for the standard testing.								
Should you have any doubt, please refer to the environmental conditions specified in the 2019.05.29								
acknowledgement document.								
-					资1.	Ŧ		
ADDA CORPORATION	Model No.:	AB3505LX-Q	БΟ	P.S:	(1X)	Page 1/6		

## SPECIFICATION

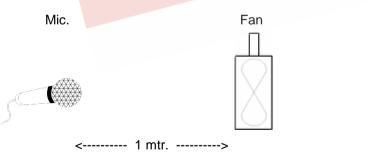
#### 1 · 0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document.
- 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans.
- 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications.
- 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand.
- 1.5 If the product is used on the MIS system, please specify the specification in the purchase order.
- $2 \cdot 0$  MATERIAL
  - 2 · 1 Frame : Aluminum alloy
  - 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)
  - 2 · 3 RoHS : (V) YES
  - HF : () YES
- 3 · 0 DIMENSIONS & CONSTRUCTION All dimensions, Direction of rotation and air flow were specified as per drawing attached.

#### 4 · 0 CHARACTERISTICS & DEFINITION

- 4 · 1 All rated characteristics were specified as per data sheet enclosed.
- 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 3 Rated Speed : Rated Speed shall be measured after 3 minutes. of continuous rotation at rated voltage.
- 4 · 4 Start Voltage : The voltage which is able to start the fan to operate by suddenly switching ' ON ' .
- 4 · 5 Input Power : Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 6 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 Air Flow & Static Pressure : The air flow data and static pressures should be determined in accordance with AMCA-210 standard in a doublechamber testing with intake – side measurement.
- 4 · 8 Noise Level : The measurement of noise level is carried out with reference to ISO7779 in a semi-anechoic chamber with the microphone positioned 1 meter from the fan intake. Testing fan shall be hung in the free air .

#### NOISE LEVEL MEASUREMENT





ADDA CORPORATION

Direction of air flow

#### 5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into impeller side.

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component. Restarting is automatic as soon as any constraint to rotation has been released.

As fan placed at dead angle position, and the switch was changed from off to on. Restarting was automatic normal as soon as and proved that this fan is good fan.

- 5.3 Locked Rotor Protection No damage shall be found after 72 hours continuously at condition of rotation locked.
  - Restarting is automatic as soon as constraint to running has been released.
- 5.4 Avoid the damage, check the correct voltage and proper polarity before connecting with power.
- 5.5 Free Drop Shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm thick.

- 5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

#### 6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC.

6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continous duty life at given temperature after which, 90% of testing units shall still be running.

6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.

#### 7.0 ENVIRONMENTAL

- 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid.
- 7.2 Operating Temperature / Humidity
  - -10°C to +70°C at humidity 65%+/-20% RH.
- 7.3 Storage Temperature

All function shall be normal after 500 hours storage at  $-40^{\circ}$  to +70  $^{\circ}$  with a 24 hour recovery period at room temperature.

7.4 Humidity

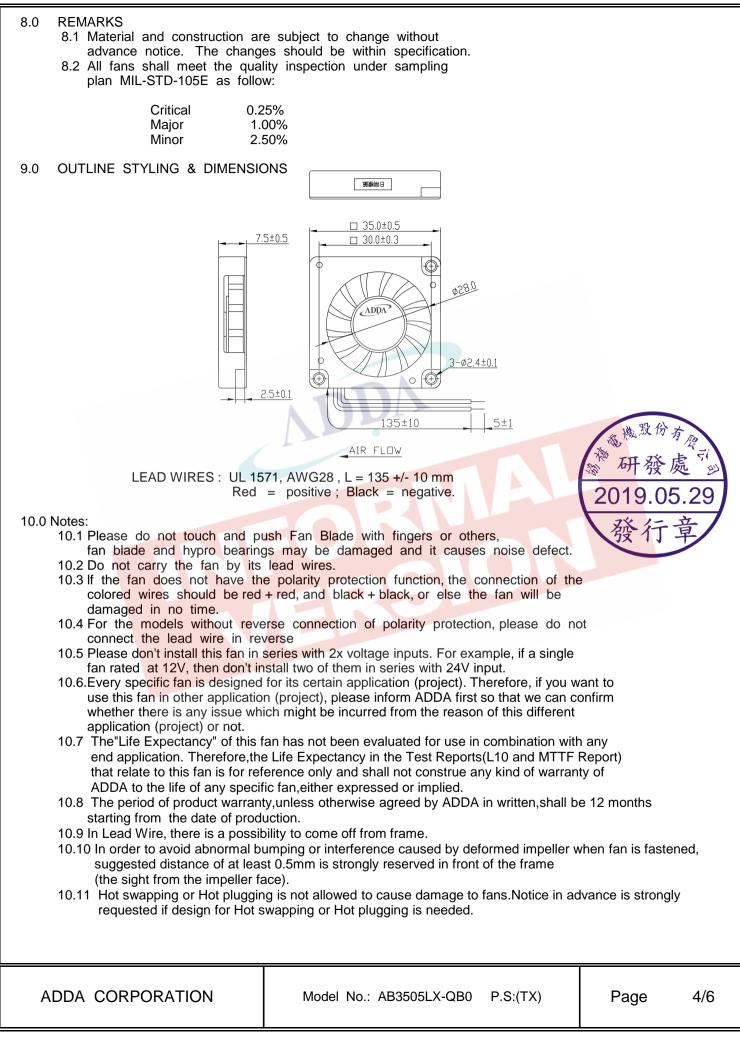
After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

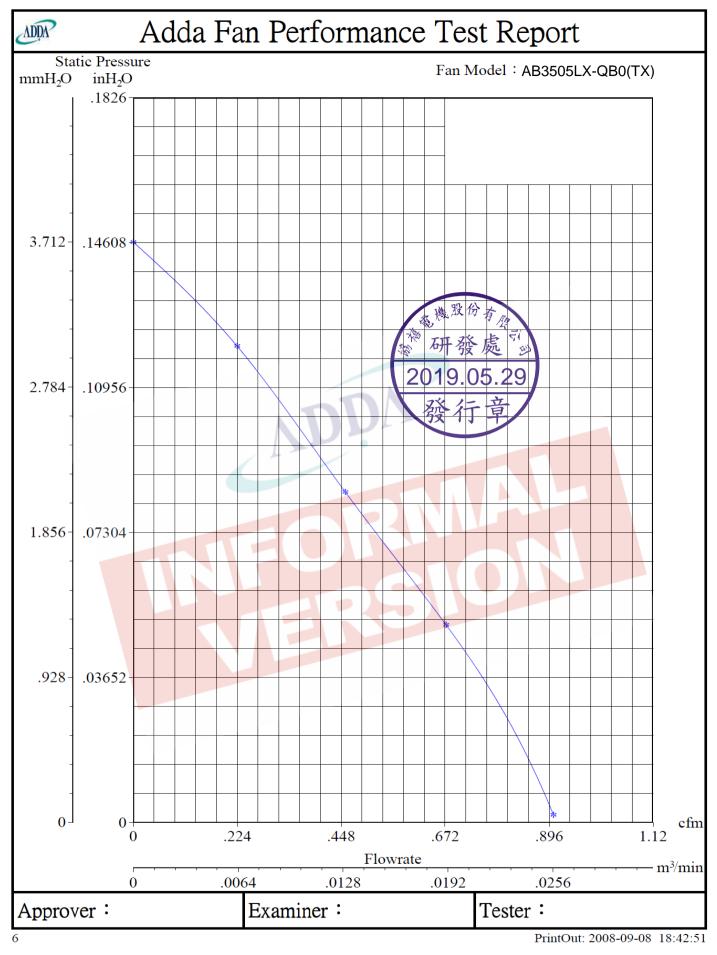
7.5 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



ADDA CORPORATION

## SPECIFICATION



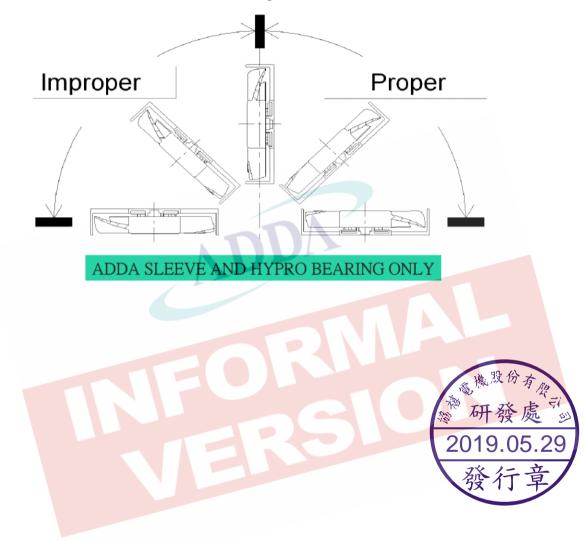


# \* Sleeve 與 Hypro軸承裝置說明:



\*Sleeve與Hypro軸承有裝置上的受限,不正常區域的運用(Improper)可能有共震與噪音的現象產生

• Please be cautions sleeve and hypro bearing fans mounting. Improper mounting of the fan may cause excess resonance • vibration and subsequent noise.



# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADDA:

AB3505LX-QB0-LF AB3505LX-QBO(T) AB3505LX-QBO(TX)