

# AVC

## APPROVAL SHEET

Customer Name	
Product	DC FAN
Part No.	DS06025S12L-006(RoHS)
Issue Date	Nov.15,2005
Customer No.	
Version	1

CUSTOMER APPROVED	Checked by	Inspected by	Designed by
	艾奇	滕建方	張浩芬

ISO 9001 CERTIFICATE  
NO.1510011117

ASIA VITAL COMPONENTS CO., LTD.

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Customer No.:

AVC Model: DS06025S12L-006

Rev. 1

## SPECIFICATION FOR APPROVAL

### 1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN.

### 2. CHARACTERS:

	ITEM	SPEC.	
2-1.	RATED VOLTAGE	12	VDC
2-2.	OPERATION VOLTAGE	7.0~13.2	VDC
2-3.	INPUT CURRENT	0.06 ( 0.12 MAX.)	A
2-4.	INPUT POWER	0.72 ( 1.44 MAX.)	W
2-5.	SPEED	3300±10%	R.P.M
2-6.	SPEED CONTROL TYPE	-----	
2-7.	SIGNAL OUTPUT	FREQUENCY GENERATOR (FG)	
2-8.	MAX. AIR FLOW @3300 RPM (AT ZERO STATIC PRESSURE)	0.426	M <sup>3</sup> /MIN
		15.05	CFM
2-9.	MAX. AIR PRESSURE @3300 RPM (AT ZERO FLOW)	3.32	mm-H <sub>2</sub> O
		0.131	inch-H <sub>2</sub> O
2-10.	ACOUSTICAL NOISE	25	dB-A

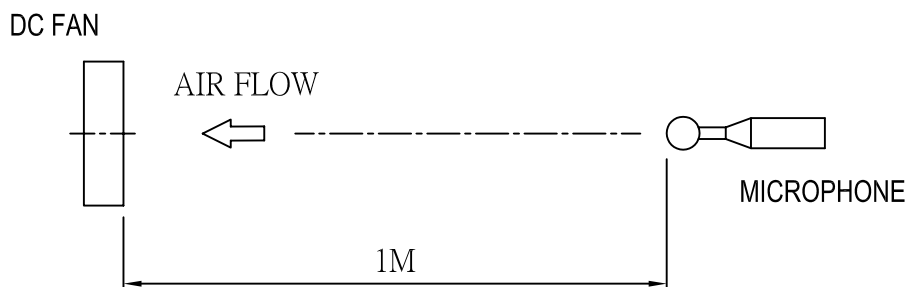
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- 2-11. INSULATION RESISTANCE — 10 MEGA OHM MIN. AT 500 VDC  
(BETWEEN FRAME AND (+) TERMINAL)
- 2-12. DIELECTRIC STRENGTH — 5 mA MAX. AT 500 VAC 60Hz ONE MINUTE,  
(BETWEEN FRAME AND (+) TERMINAL)
- 2-13. LIFE EXPECTANCE — 50,000 HOURS AT 40°C ROOM, AMBIENT 15%~65%RH
- 2-14. ROTATION — COUNTER-CLOCKWISE VIEWED FROM INLET
- 2-15. AIR FLOW DIRECTION — COUNTER-CLOCKWISE
- 2-16. INSULATION CLASS — UL: CLASS A
- 2-17. LEAD WIRE — UL1007 AWG #24 , - : BLACK  
+ : RED  
FG : WHITE

NOTE:

- A. THE VALUES WRITTEN IN PARENTHESIS, ( ), ARE LIMITED SPEC.
- B. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ACOUSTICAL CHAMBER WITH LARSON DAVIS TYPE 824S SOUND LEVEL METER.

- C. THE AIR FLOW AND AIR PRESSURE MEASURED AT RATED VOLTAGE IN DOUBLE CHAMBER IS MEASURED ACCORDING TO AMCA STANDARD 210-85.

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### 3. MECHANICAL

- 3-1. DIMENSION \_\_\_\_\_ SEE DIMENTION DRAWING
- 3-2. FRAME \_\_\_\_\_ THERMOPLASTIC PBT OF UL 94V-0
- 3-3. FAN BLADE \_\_\_\_\_ THERMOPLASTIC PBT OF UL 94V-0
- 3-4. BEARING SYSTEM \_\_\_\_\_ SLEEVE BEARING
- 3-5. WEIGHT \_\_\_\_\_ 55 g

### 4. ENVIRONMENTAL

- 4-1. OPERATING TEMPERATURE \_\_\_\_\_ -10 TO +60 °C
- 4-2. STORAGE TEMPERATURE \_\_\_\_\_ -40 TO +70 °C
- 4-3. OPERATING HUMIDITY \_\_\_\_\_ 5 TO 90 % RH
- 4-4. STORAGE HUMIDITY \_\_\_\_\_ 5 TO 95 % RH
- 4-5. DROP TEST \_\_\_\_\_  
IN MINIMUM PACKGING CONDITION FAN WITHSTAND EACH ONE  
DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ONTO 10mm  
THICKNESS OF WOODEN BOARD
- 4-6. VIBRATION TEST \_\_\_\_\_  
SINEWAVE  
DISPLACEMENT AMPLITUDE: 0.75 mm (EQUIVALENT 10G)  
FREQUENCY RANGE: 10Hz - 55 Hz / 30 SEC. 55Hz - 10 Hz / 30 SEC.  
LINEAR SCANNING 120 CYCLE  
ENDURANCE TIMER PER AXIS: 2 HOURS  
ORIENTATION: X,Y,Z
- 4-7. SHOCK TEST \_\_\_\_\_  
APPLY PEAK ACCELERATION 50 g AND KEEP DURATION OF THE  
PLUSES FOR 11MS (HALF SINE WAVE)
- 4-8. RoHS \_\_\_\_\_ SEE RoHS STANDARD

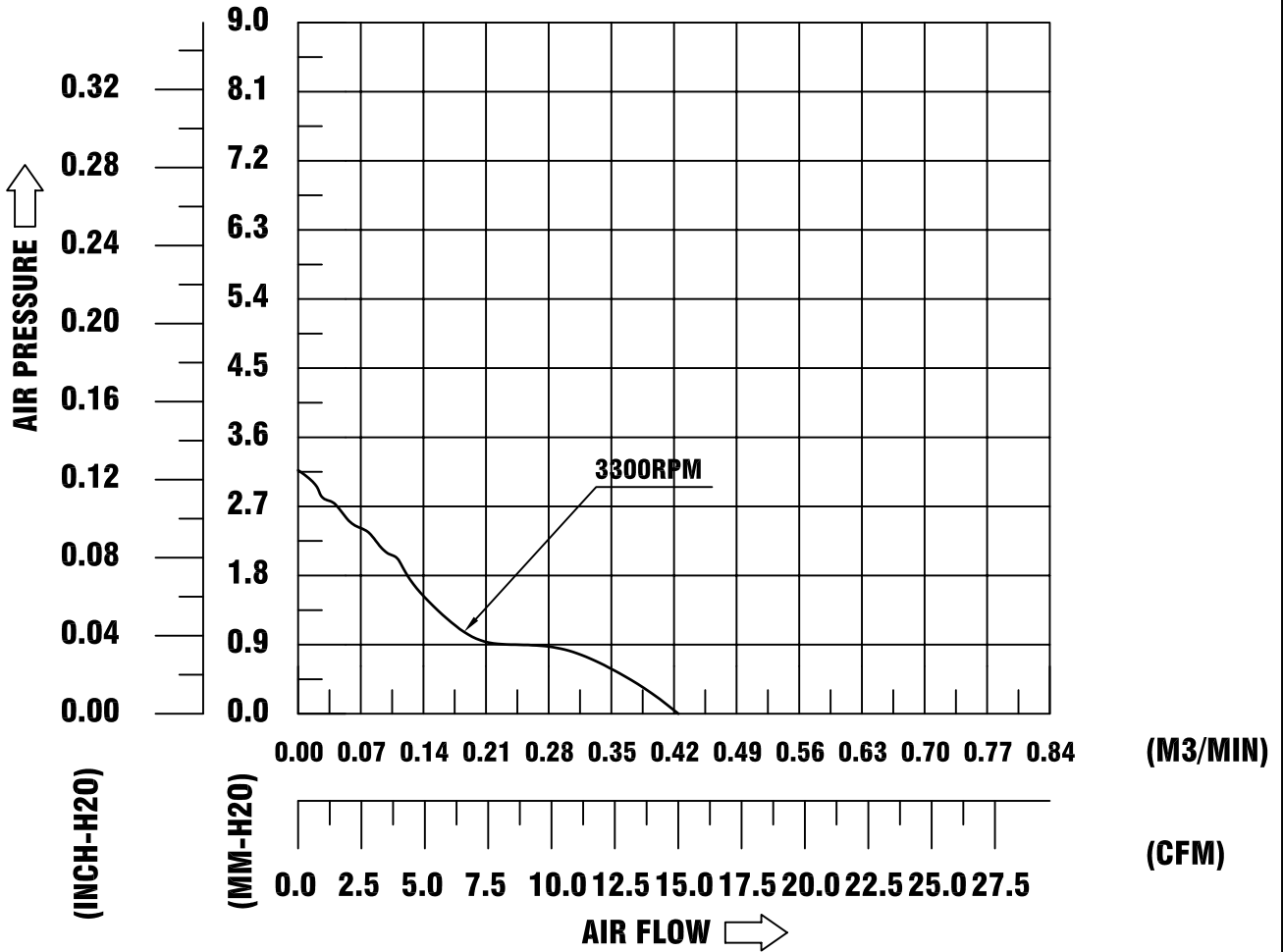
### 5. PROTECTION

- 5-1. LOCKED ROTOR PROTECTION \_\_\_\_\_  
IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM DAMAGE IN  
72 HOURS OF LOCKED ROTOR CONDITION AT THE REATED VOLTAGE
- 5-2. POLARITY PROTECTION \_\_\_\_\_  
BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR  
POSITIVE AND NEGATIVE LEADS

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### 6. P & Q CURVE



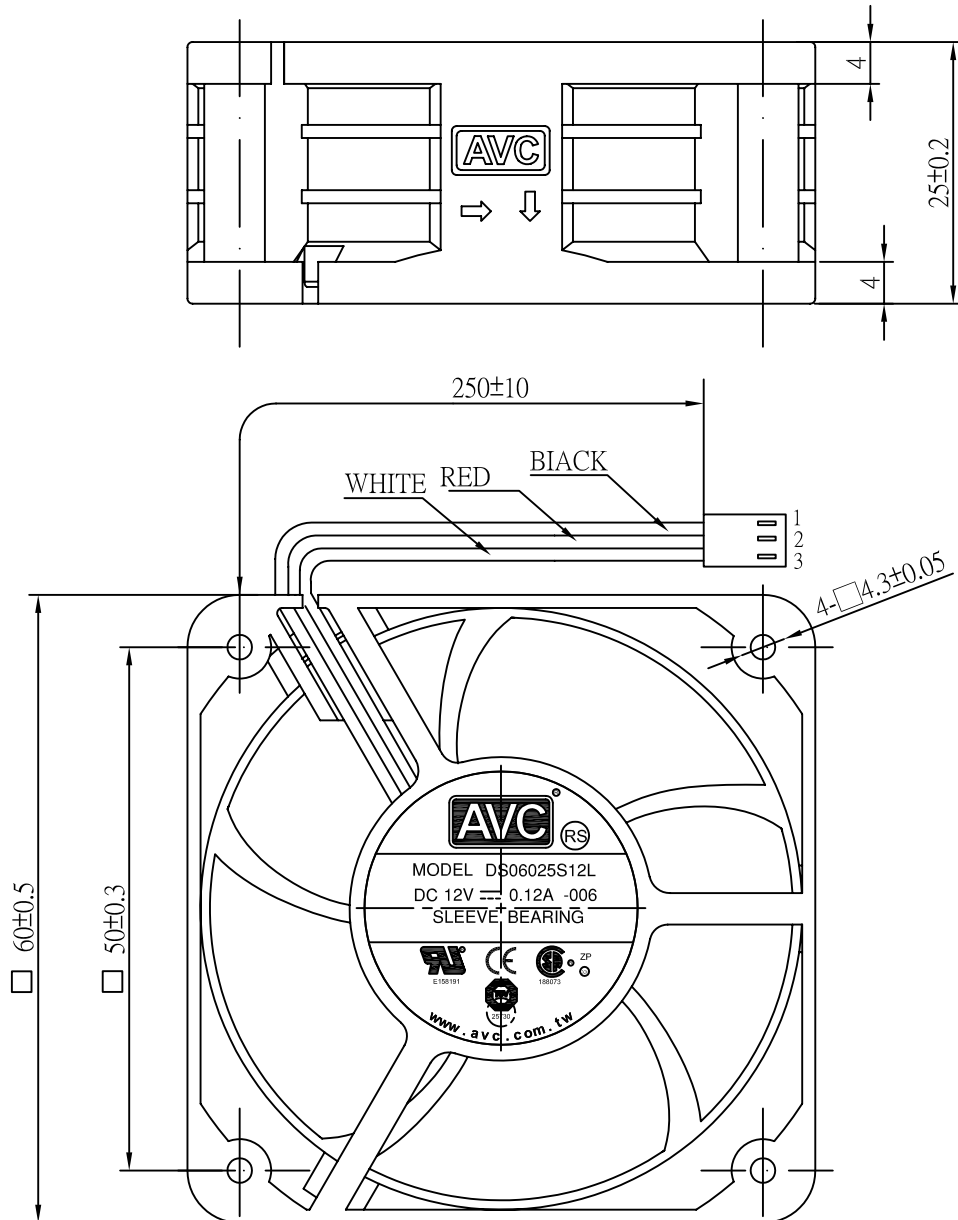
\* TEST CONDITION:

INPUT VOLTAGE      OPERATION VOLTAGE  
TEMPERATURE      ROOM TEMPERATURE  
HUMIDITY      65%RH

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## 7. DIMENSION DRAWING



### NOTES:

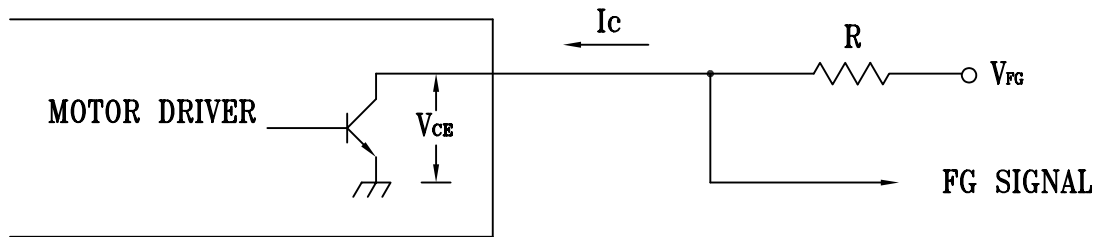
1. LEAD WIRES: PVC WIRES UL1007 AWG#24  
PIN1: BLACK WIRE ..... (-)  
PIN2: RED WIRE ..... (+)  
PIN3: WHITE WIRE ..... (FG)
2. CONNECTOR  
HOUSING: MOLEX 2695-03 OR EQUIVALENT(COLOR IS WHITE)  
TERMINAL: MOLEX 2759T OR EQUIVALENT

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## 8. FREQUENCY GENERATOR (FG) SIGNAL

### 8-1. SCHEMATIC:



### CAUTION:

THE LEAD WIRE OF FG SIGNAL CAN NOT TOUCH THE LEAD WIRE OF POSITIVE OR NEGATIVE.

### 8-2. SIGNAL SPECIFICATION:

OUTPUT TYPE: OPEN COLLECT

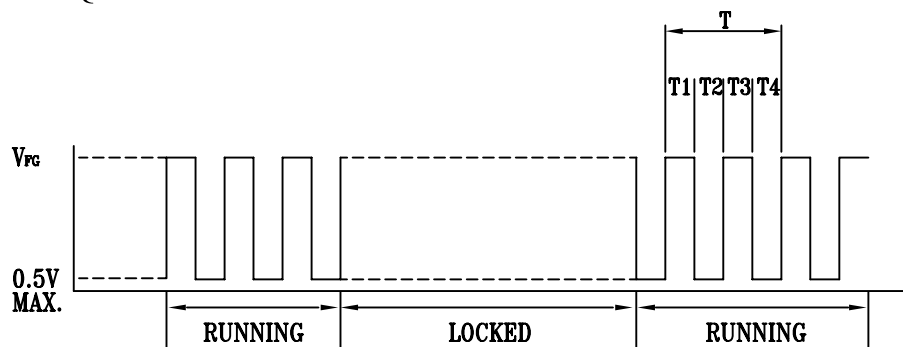
$V_{FG}$  MAXIMUM VOLTAGE = 13.8V

$I_c$  MAXIMUM CURRENT = 5mA

LOW LEVEL VOLTAGE = 0.5V MAX.

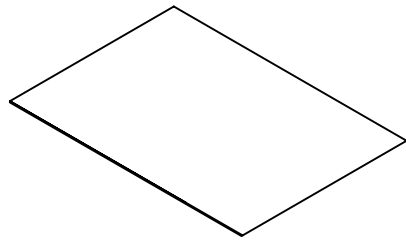
$R \geq V_{FG} / I_c$

### 8-3. FREQUENCY GENERATOR WAVEFORM:



$$T = T_1 + T_2 + T_3 + T_4 = 60/N \text{ (Sec)}$$

N: SPEED (RPM)

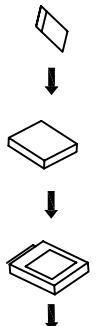


隔板: A705Z00001\*1PCS

夾鏈袋: C070202\*1PCS

風扇\*1PCS

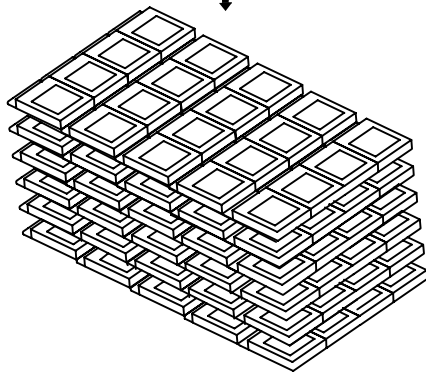
彩盒: A701000586\*1PCS



貼紙貼如圖所示:  
A610000905\*1PCS

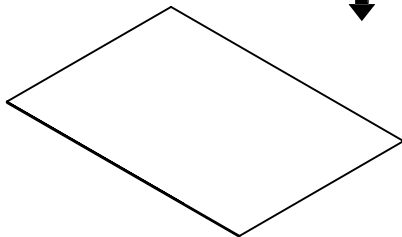
彩盒正面

4\*5\*6=120PCS

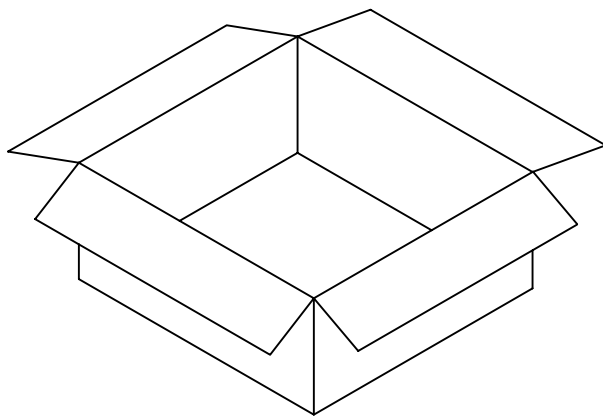


空白處貼貼紙:  
A610000785\*1PCS

彩盒背面



隔板: A705Z00001\*2PCS



紙箱: A702Z00001  
TOTAL: 120PCS

					DRAWING NAME: RS-PACKAGE CHART	 奇鋳電子(深圳)有限公司 ASIA VITAL COMPONENTS CO., LTD.			
					PART NO: DS06025S12L-006				
					APPD: 廖秀正	DATE: 2005.11.01	METHOD:	WEIGHT:	SCALE: Free
					CKD: 王小鋒	DATE: 2005.11.01	MATERIAL:	COLOR:	UNIT: mm
REV	DESCRIPTION	EC CODE	DATE	DRAWING	DSN: 董志平	DATE: 2005.11.01	 DRAWING NO.		A/00