CUSTOMER:

NO.: 2017090402

DISTRIBUTOR:

(PE48AA1)

APPROVE SHEET

[Compliance with RoHS]

PRODUCT: DC BRUSHLESS FAN

USER P/N:

Parts No.: JF1225B1SK003-GSSR

Printed model number on the stick: JF1225B1SK-R

(SIGNATURE)

JAMICON GROUP
KAIMEI ELECTRONIC CORP.
TEL:0755-2813 5359
FAX;0755-2813 5384

KAIMEI ELECTRONIC (H.K.) LTD. 凱美電機承認章

APPROVED	CHECKER	DESIGNER
研發部經理 2017.9.04 尤焜儀	課长 2017.9.04 邓龙军	郝文姣 2017/09/04

1. MECHANICAL:

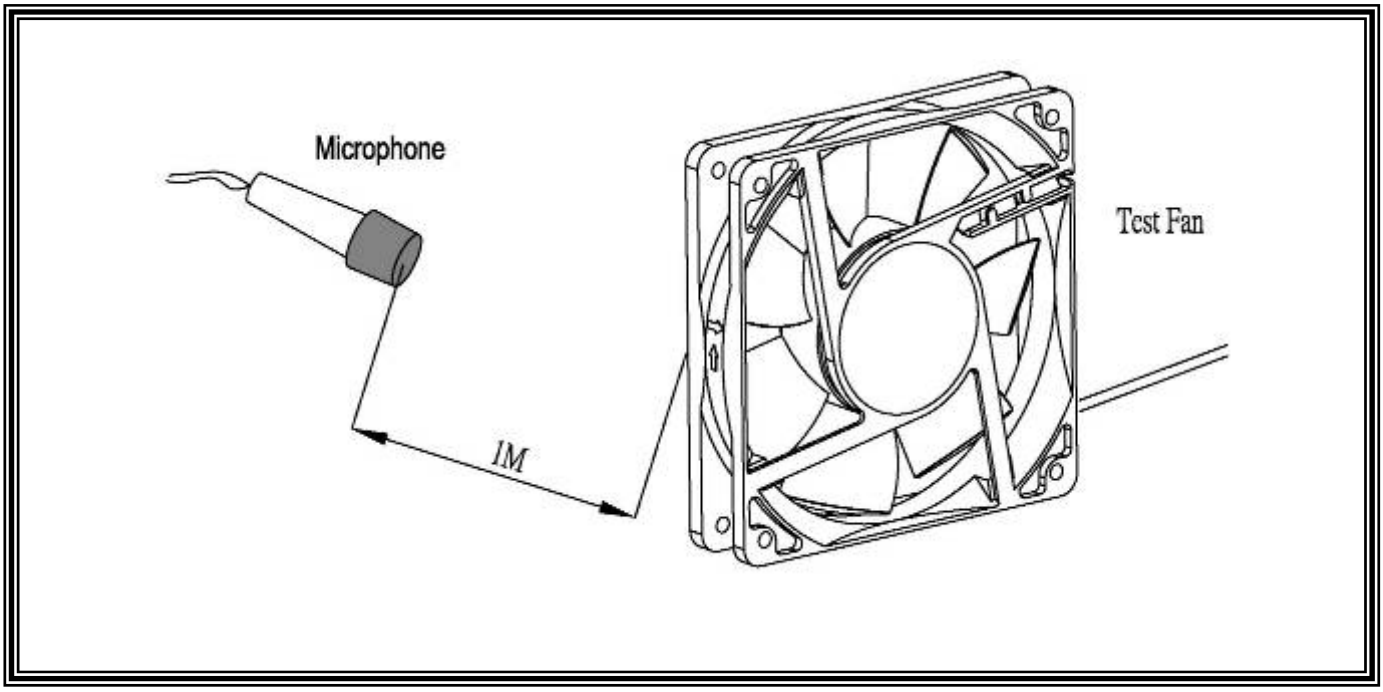
1-01	Dimension	Dimension of fan shall be shown in the outline styling drawing attached.
1-02	Motor	Four-pole motor.
1-03	Frame	Plastic material UL 94V-0.
1-04	Impeller	Plastic material UL 94V-0.
1-05	Free drop shock	In minute package condition, the fan should withstand each one drop of three faces from 30cm distance height onto 10 mm thickness of wooden board.

2.ELECTRICAL:

2-01	Rated current	Rated current shall be measured after 30 minutes continuous rotation at rated voltage.
2-02	Start voltage	The voltage that enable to start the fan by sudden switch on.
2-03	Rated Speed	Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.
2-04	Input Power	Input power shall be measured after 30 minutes continuous rotation at rated voltage.
2-05	Lock Current	Locked current shall be measured Within one minute at rotor locked, after 30 minutes continuous rotation at rated voltage in clear air.
2-06	Insulation resistance	More than 10M ohm at 500 V.D.C between lead and housing.
2-07	Dielectric strength	Measured 5 mA(max) trip current at 700 V.A.C for 3 sec. between lead and housing.
2-08	Locked motor protection	Designed to meet UL, CUL and TUV.
2-09	DO NOT use power or ground PWM to control the fan speed.If the fan speed needs to be adjusted,please contact JAMICON to customize the product design for your application	

3.CHARACTERISTICS:

3-01	Air Flow & Static Pressure	The air flow data and static pressures should be determined in accordance with AMCA standard or DIN24163 specification in a double- chamber testing with intake-side measurement.
3-02	Noise level	The measurement of noise level is carried out with reference to DIN45635 in an echoic chamber with the microphone positioned 1 M from the air intake. Testing fan shall be hung in clean air.



4.ENVIRONMENTAL:

4-01	Operating temperature	-10℃ to 70℃ (ordinary humidity)
4-02	Storage Temperature	-40℃ to 70℃ (ordinary humidity)
4-03	Humidity	After 96 hrs, 95% RH 40±2℃per MIL-STD-202F method 103B, Humidity test , The measured data of insulation resistance & dielectric strength should meet the specification listed in attach.
4-04	Thermal Shock	After thermal shock test per MIL-STD-202F method 107D, Condition D, The measured data of insulation resistance & dielectric strength should the specification

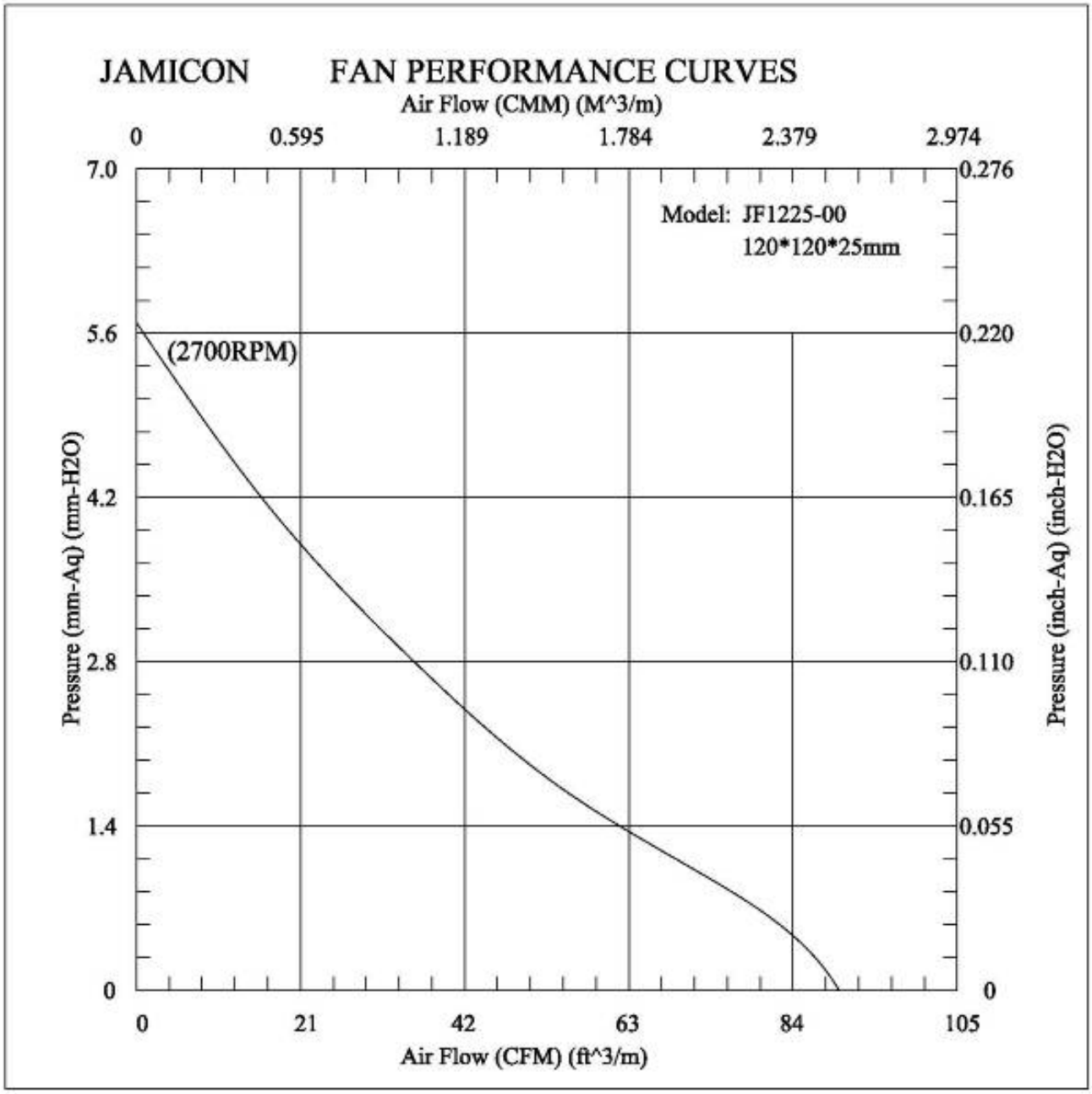
5.DATA-SHEET:
MODEL : JF1225B1SK003-GSSR
5-1. SPECIFICATION:

NO.	ITEM	SPECIFICATION	UNIT	CONDITION
5-1-01	Dimension	120*120*25	mm	----------
5-1-02	Bearing	Dual ball	---------	----------
5-1-03	Rated Voltage	12	VDC	----------
5-1-04	Operating Voltage	6.0~ 13.8	VDC	MAX 13.8V
5-1-05	Start Voltage	6.0	VDC	On/off test max
5-1-06	Speed	0~2700	R.P.M	At rated Voltage, Duty cycle 0~100%
		2700		±10%,At rated Voltage, No PWM Signal
5-1-07	Input Current	0.37	Amp	At rated Voltage Duty cycle 100%
		0.02		At rated Voltage Duty cycle 0%
5-1-08	Input Power	4.44	Watt	At rated Voltage Duty cycle 100%
		0.24		At rated Voltage Duty cycle 0%
5-1-09	Nominal Current	0.37	Amp	At rated Voltage
5-1-10	Air Flow	89.87	CFM	At 0 static Pressure of rated speed
5-1-11	Static Pressure	0.224	inchH_2O	At 0 air flow of rated speed
5-1-12	Noise	42.8	dBA	At rated speed
5-1-13	Life Expectancy(L10)	75,000	Hours	At 40℃(Bearing)
5-1-14	Motor protection	Electronic protected		
5-1-15	Polarity protection	It will not damage the fan while reverse input.		
5-1-16	Auto Restart	YES	--------	----------
5-1-17	Speed Signal output	YES(1)	--------	----------
5-1-18	Alarm Signal output	NO	--------	----------
5-1-19	Rotation direction	From the label side	--------	Clockwise
5-1-20	Weight	205	Gram	Per each piece
5-1-21	Safety Certificate	UL, CUL, TUV, CE	--------	----------

5-2. LEAD WIRE:

NO.	ITEM	SPECIFICATION			
5-2-01	AWG NO. & Authorize	26AWG , UL1007(The end of wire with tin as drawing)			
5-2-02	Color	＋	—	Speed	PWM
		Red	Black	Yellow	Blue
5-2-03	Line Length	260±10mm			
5-2-04	Connector	Notes as: Not available			
5-2-05	Tube	NO			

Note(1):Don’t direct connect the speed /Alarm signal output to “+”or “-” .


JAMICON
FAN PERFORMANCE CURVES
Air Flow (CMM) (M^3/m)
0
0.595
1.189
1.784
2.379
2.974
7.0
5.6
4.2
2.8
1.4
0
0.276
0.220
0.165
0.110
0.055
0
Model: JF1225-00
120*120*25mm
(2700RPM)
Pressure (mm-Aq) (mm-H2O)
Pressure (inch-Aq) (inch-H2O)
0
21
42
63
84
105
Air Flow (CFM) (ft^3/m)

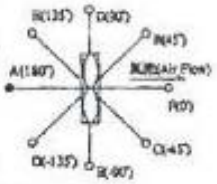
風扇振動噪音性能測試報告
(The Test Report of Fan Vibration and Noise)

風扇型號(Sample Type) : JF1225B1S
基本規格(Properties) : DC12 V 7葉 4極 2700RPM

測試日期(Test Date) : 2003/2/11 PM 01:03:27
測試編號(Test No.) : (1)

測試條件(Test Conditions)

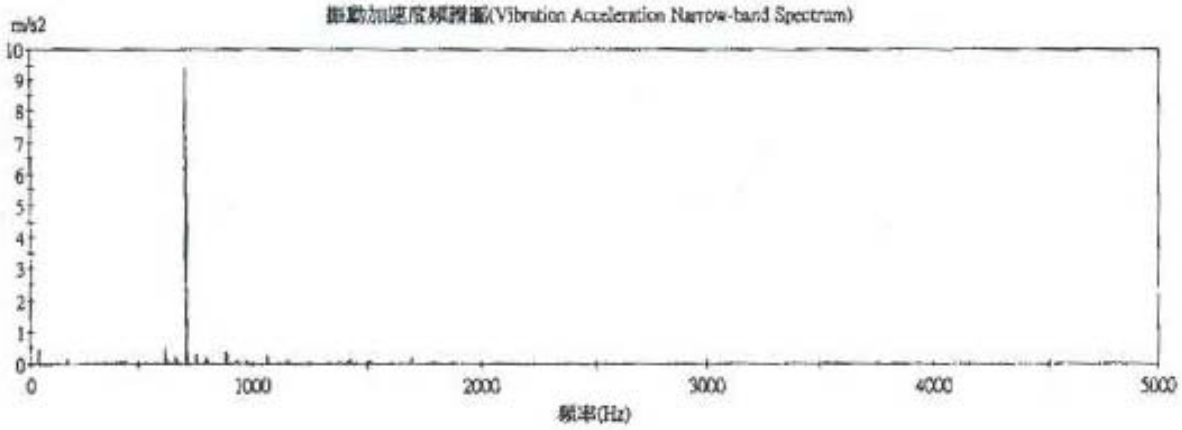
輸入電壓(Input Voltage) :	12 V
量測時間(Measuring Time) :	20 sec
麥克風距離(Mic. Distance) :	100 cm
麥克風角度(Mic. Angle) :	180°
頻域加權(Freq. Weighting) :	A
時域加權(Time Weighting) :	SLOW
背景噪音(Background Noise) :	15.0 dB(A)
溫度(Temperature) :	℃
相對濕度(Relative Humidity) :	%



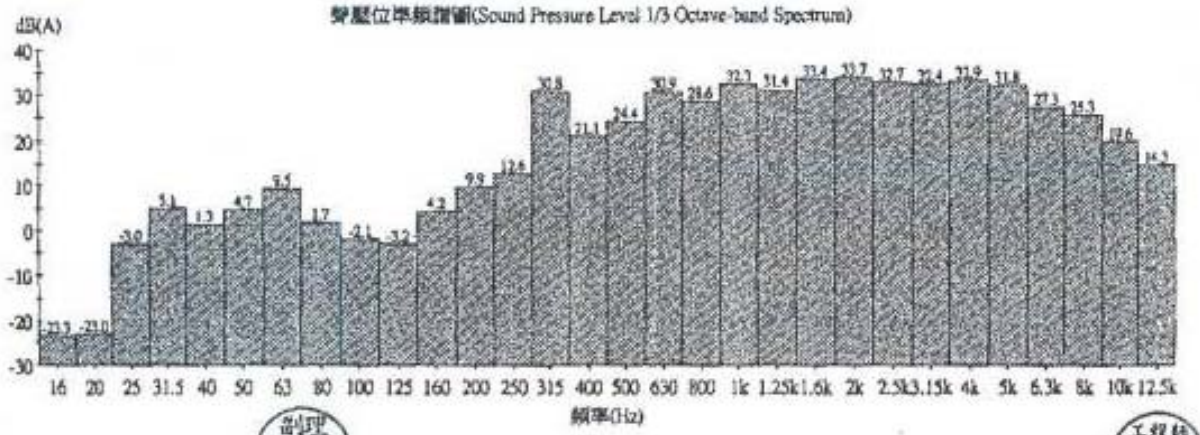
測試結果(Test Results)

電壓(Passing Voltage) :	
電流(Electric Current) :	
消耗功率(Power Dissipation) :	
轉速(Rotation Speed) :	2698 RPM
振動量(Vibration Level) (依據 ISO 10816-1)	
振動速度(Vib. Velocity) :	2.48 mm/sec RMS
均能聲壓位準(Time-averaged SPL, Leq) (依據 CNS 8753)	
量測點(At Meas. Point) :	42.8 dB(A)
1 米處(At 1m Point) :	42.8 dB(A)
最大聲壓位準(MaxL) :	43.3 dB(A)
最小聲壓位準(MinL) :	40.7 dB(A)

振動加速度頻譜圖(Vibration Acceleration Narrow-band Spectrum)



聲壓位準頻譜圖(Sound Pressure Level 1/3 Octave-band Spectrum)



簽核人員(Signatory) : 副理 11·7·03 尤昭儀

操作員(Operator) : Yu 簽章(Signature) : 工程師 11·7·03 廖寬祥

系統開發(Developer) : 工業技術研究院 機械工業研究所(MIRL/ITRI)

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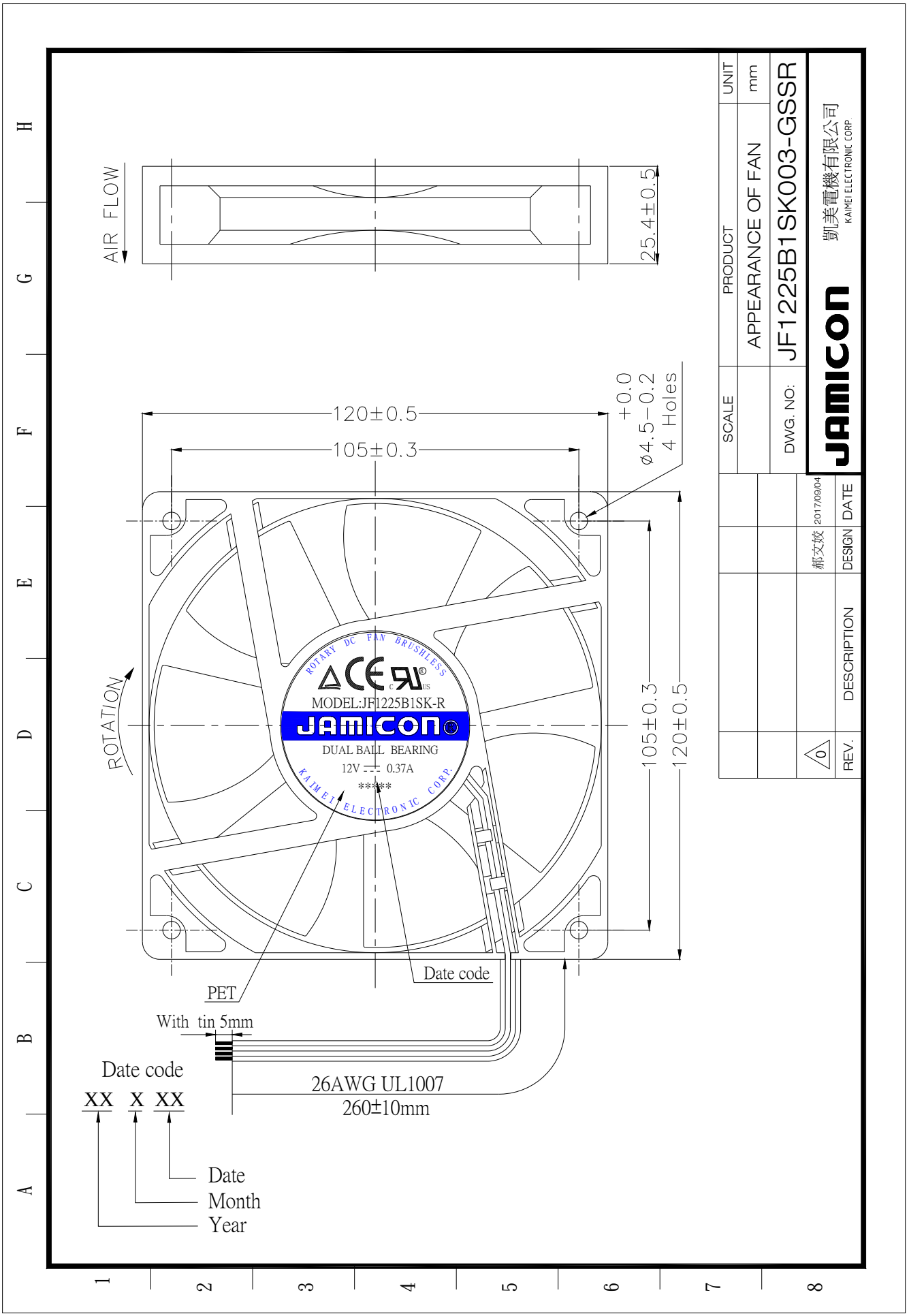
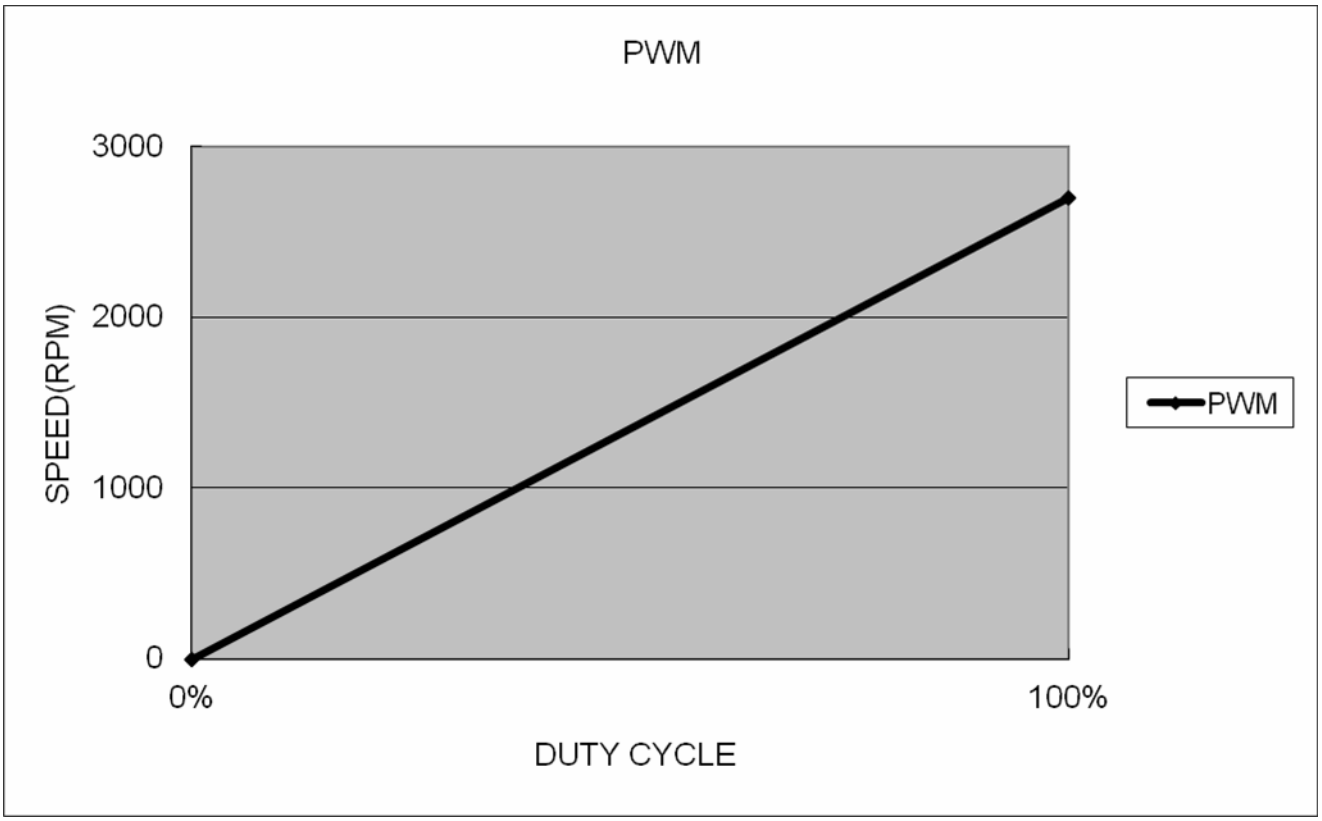

AIR FLOW
25.4±0.5
120±0.5
105±0.3
+0.0
ø4.5−0.2
4 Holes
ROTATION
105±0.3
120±0.5
ROTARY DC FAN BRUSHLESS
MODEL:JF1225B1SK-R
JAMICON
DUAL BALL BEARING
12V 0.37A
KAIMEI ELECTRONIC CORP.
Date code
PET
With tin 5mm
26AWG UL1007
260±10mm
Date code
XX X XX
Date
Month
Year
PRODUCT
APPEARANCE OF FAN
UNIT
mm
SCALE
DWG. NO:
JF1225B1SK003-GSSR
JAMICON
凱美電機有限公司
KAIMEI ELECTRONIC CORP.
REV.
DESCRIPTION
DESIGN
DATE
0
郝文姣
2017/09/04

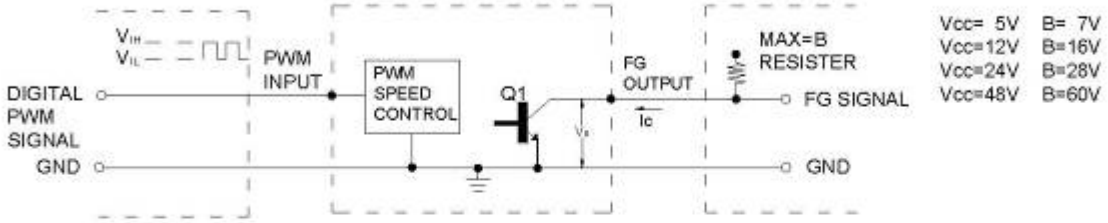
JF1225B1SK003-GSSR TEST				
F=21-28KHz VIL≦0.6V VIH=2-5.5V				
DUTY CYCLE	Rated Voltage	CURRENT (REF)	SPEED (RPM)	RANGE(RPM)
0%	12V	0.02A	0	Not ratate
100%		0.37A	2700	±10%
No PWM Signal		0.37A	2700	



PWM speed control

PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(FG)
OUTPUT OF LOCKED SIGNAL----------OPEN COLLECTOR TYPE
(External signal function design is decided by customer)

CUSTOMER'S CIRCUIT **FAN** **CUSTOMER'S CIRCUIT**



***TRANSISTOR Q1 AT "ON" POSITION**
COLLECTOR CURRENT----------I_C= 10MA MAX
SATURATION VOLTAGE----------V_{OL}= 1V MAX

***TRANSISTOR Q1 AT "OFF"POSITION**
RELEASE VOLTAGE----------V_{OH} ≦ Vcc

*** DIGITAL PWM SPEED CONTROL POSITION**
PWM INPUT VOLTAGE HIGH----------V_{IH}= 5.5V MAX
PWM INPUT VOLTAGE LOW----------V_{IL} ≦ 0.6V
PWM INPUT FREQUENCY----------F_{PWM}: 21KHz~28KHz

ROTATION