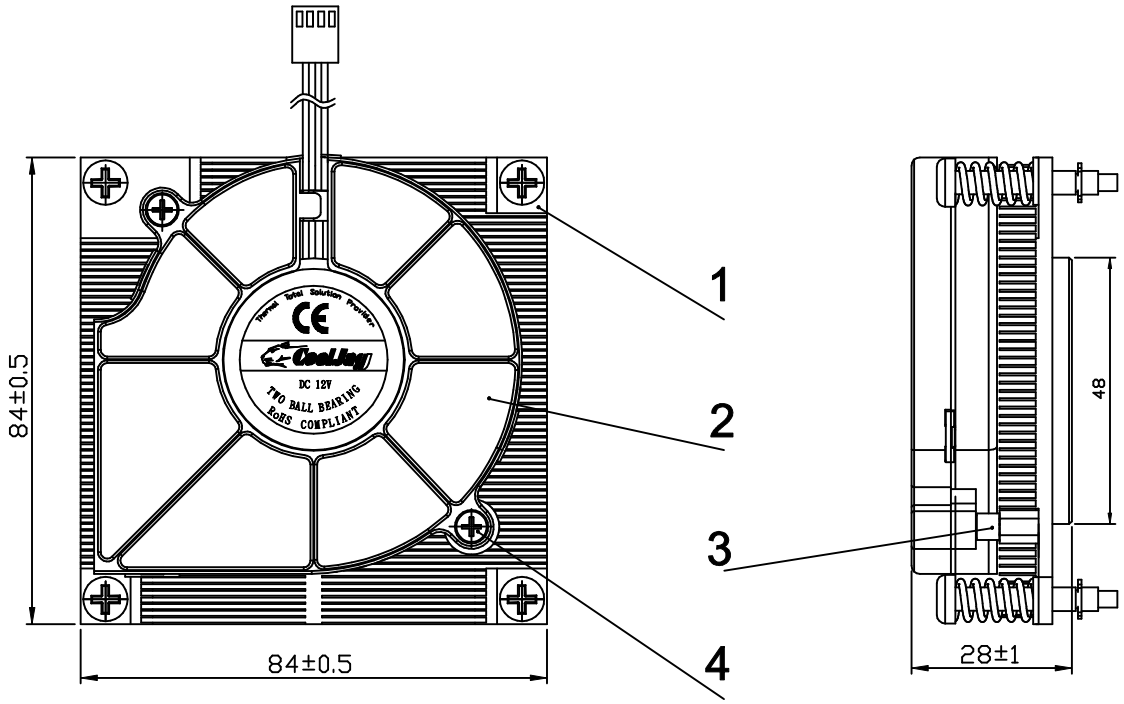
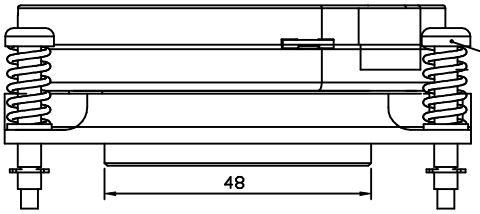
JACLL03C

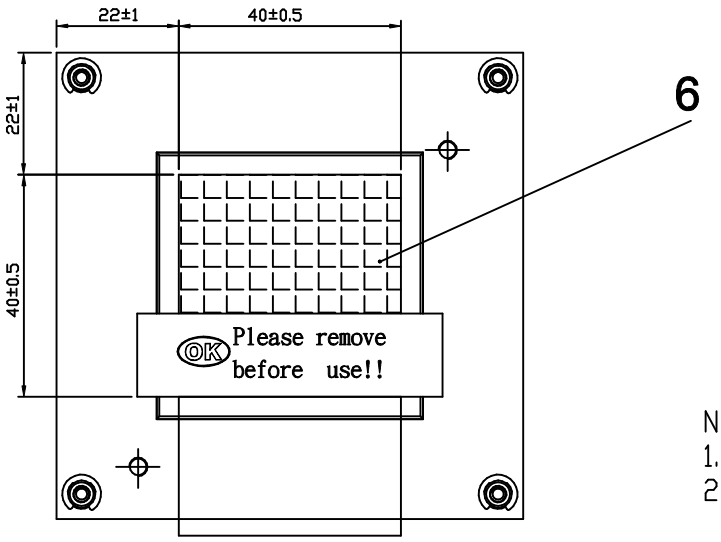


Application	INTEL LGA1156 / 1U Active
Specification	
Weight	~382g
Dimension	84L×84W×28H (mm)
Heat sink	
Model	JAHL03C
Material	CU 1100
Fin pitch	1.2 (mm)
Fin thickness	~0.3 (mm)
Fan	
Rated Voltage	DC12V
Rated Current	0.80A
Rated Speed	5500RPM ±10%

GP







NOTE:
1.THE FIN PITCH IS 1.2mm
2.THE FIN THICKNESS IS 0.3±0.1mm

TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
RANGE	TOL±
UNDER 6	0.18
6~10	0.22
10~18	0.27
18~30	0.33
30~50	0.39
50~80	0.46
80~120	0.54
120~250	0.63
250 OVER	0.8
ANG TOL±	1°

P/N	DESCRIPTION	QTY
6. JAP118E-1	Thermal PAD /40*40MM	1
5. JAS175C	Spring Screw Kit	4
4. JAS095C	Fan Screw	2
3. JAU022	Part	2
2. JAF750015H4	DC Fan	1
1. JAHL03C	Heatsink	1

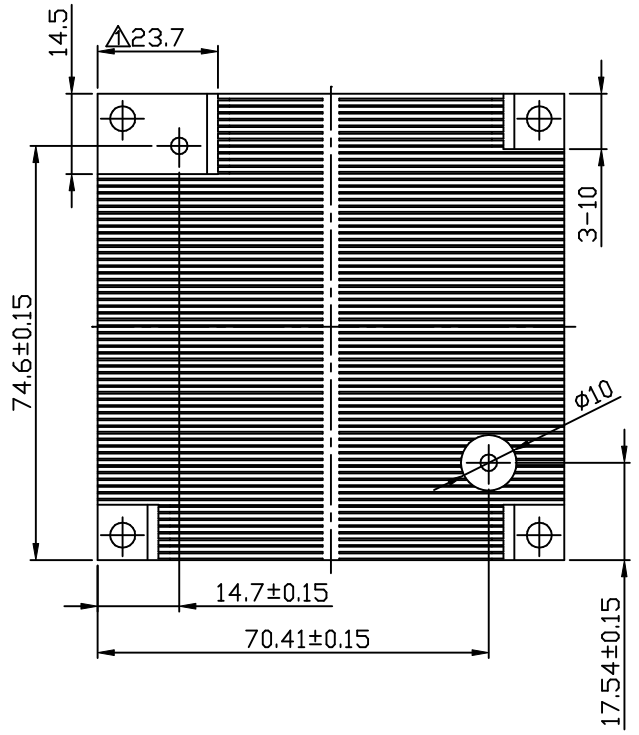
REV	DESCRIPTION	DATE
	REVISION HISTORY	

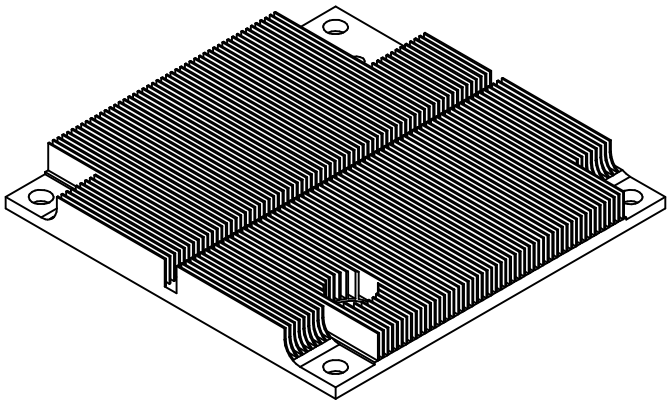
DRN	Tony	07/30 2009	P/N: JACLL03C
CHK			TITLE: COOLER
APP			SCALE: 1 : 1
			UNIT: M/M

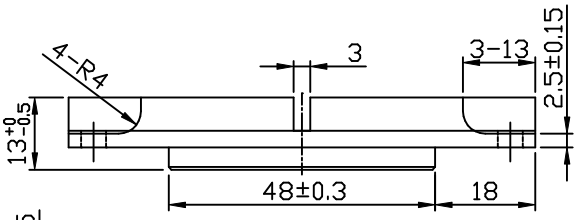
MATERIAL: --
FINISH: --
REV: --

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TEL:+886 4 7323090
FAX:+886 4 7383155

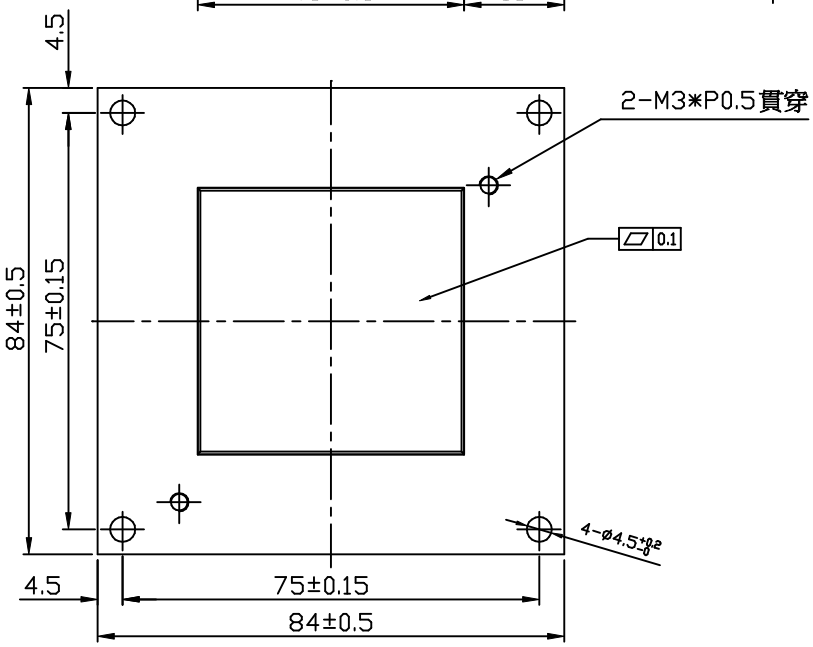
GP











TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
RANGE	TOL±
UNDER 6	0.18
6~10	0.22
10~18	0.27
18~30	0.33
30~50	0.39
50~80	0.46
80~120	0.54
120~250	0.63
250 OVER	0.8
ANG TOL±	1°

NOTE:
1.THE FIN PITCH IS 1.2mm
2.THE FIN THICKNESS IS 0.3±0.1mm

REV	DESCRIPTION	DATE
	REVISION HISTORY	

DRN	Tony	08/20 2009	P/N: JAHL03C
CHK			TITLE: HEATSINK
APP			SCALE: 1 : 1
			UNIT: M/M

MATERIAL: CU1100
FINISH: 抗氧化
REV: --

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SPECIFICATIONS

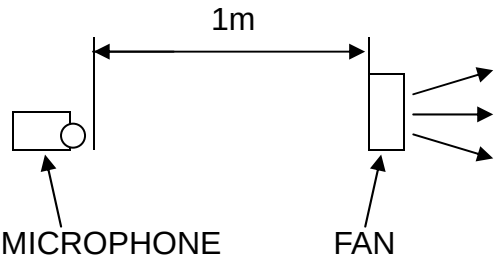
TYPE	MODEL NO.	PAGE:
DC BRUSHLESS FAN	B127515BU AF	1 OF 5

THESE SPECIFICATIONS DEFINE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS FAN.

1. MECHANICAL SPECIFICATIONS

1-1	EXTERNAL DIMENSIONS	: REFER TO DWG. NO. HT-001
1-2	FRAME MATERIAL	: LEAD-FREE PBT(BLACK) PLASTIC {UL 94V-0}
	IMPELLER MATERIAL	: LEAD-FREE PBT(BLACK) PLASTIC {UL 94V-0}
1-3	BEARING	: TWO BALL BEARINGS
1-4	NET WEIGHT	: 55g

2.ELECTRICAL SPECIFICATIONS

NO	ITEMS	STANDARD	REMARKS
2-1	RATED VOLTAGE	12 V DC	
2-2	OPERATING RANGE	11.4 V~12.6 V DC	
2-3	CONSUMING CURRENT	DUTY CYCLE =100% 0.80 Amp (MAX. 0.80 Amp) DUTY CYCLE = 0%~30% (MAX. 0.10 Amp)	IN FREE AIR AT RATED VOLTAGE
2-4	CONSUMING POWER	DUTY CYCLE =100% 9.60 W (MAX. 9.60 W) DUTY CYCLE = 0%~30% (MAX. 1.20W)	IN FREE AIR AT RATED VOLTAGE
2-5	RATED SPEED	DUTY CYCLE =100% 5500rpm±10%rpm DUTY CYCLE =0%~30% 1000rpm±400rpm	1.IN FREE AIR AT RATED VOLTAGE 2.TESTING SPEED AFTER CONTINUOUS 3 MINUTE OPERATION AT AMBIENT TEMPERATURE OF25℃
2-6	AIRFLOW	DUTY CYCLE =100% 11.83 CFM 0.34 m^3/min DUTY CYCLE = 0%~30% 1.93 CFM 0.05 m^3/min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-7	STATIC PRESSURE	DUTY CYCLE =100% 20.66 mmH_2O DUTY CYCLE = 0%~30% 0.38 mmH_2O	AT RATED VOLTAGE AT ZERO AIRFLOW
2-8	SOUND LEVEL	DUTY CYCLE=100% 51dB(A) MAX. 55 dB(A) DUTY CYCLE =0%~30% 18dB(A) MAX.22 dB(A)	IN FREE AIR AT RATED VOLTAGE 

	APPROVAL	CHECKED	DRAWING
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2008/05/14	ZHU QIAO 2008/05/14	LIU PING 2008/05/14

SPECIFICATIONS

TYPE DC BRUSHLESS FAN	MODEL NO. B127515BU AF	PAGE: 2 OF 5

2-10	OPERATING TEMPERATURE	-10℃~70℃ (NORMAL HUMIDITY)	
2-11	STORAGE TEMPERATURE	-20℃~75℃ (NORMAL HUMIDITY)	
2-12	DIRECTION OF ROTATION	CLOCKWISE FROM LABEL SIDE	
2-13	DIRECTION OF AIRFLOW	LABEL SIDE DISCHARGE	
2-14	INSULATION STRENGTH	10 MEG OHM MIN.	AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
2-15	DIELECTRIC STRENGTH	MUST WITHSTAND 500 VAC 1min	MAX 1mA BETWEEN FRAME AND LEADS
2-16	PROTECTION	CURRENT LIMIT	
2-17	DROP TEST	IN MINIMUM PACKAGING CONDITION,FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ON TO 10mm THICKNESS OF WOODEN BOARD.	
2-18	MECHANICAL SHOCK	TEMPERATURE : +25°c. ORIENTATION : X , Y , Z . POWER : NON-OPERATING. ACCELERATION : 50G MAX. PULSE : 11 MS HALF-SINE WAVE. NUMBER OF SHOCKS : 5 SHOCKS FOR EACH DIRECTION.	

NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25℃) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTICED.

	APPROVAL	CHECKED	DRAWING
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2008/05/14	ZHU QIAO 2008/05/14	LIU PING 2008/05/14

SPECIFICATIONS

3.LIFE EXPECTANCE (L10)

MORE THAN 90% SHALL KEEP RUNNING AFTER CONTINUOUS OPERATION OF 50,000 HOURS AT RATED VOLTAGE IN 25℃ AMBIENT TEMPERATURE AND 65% RELATIVE HUMIDITY CONDITION.

FAN LIFE SHOULD BE REDEFINED WHEN ABOVE CONDITIONS ARE CHANGED.

4.LOCKED ROTOR

NO DAMAGE SHALL BE FOUND FOR CONTINUOUS ONE HOUR AT LOCKED ROTOR.

5.SPECIAL ITEMS

5-1 SPECIFICATION CHANGE

ANY CHANGES TO THE PARAMETERS SPECIFIED IN THIS DOCUMENT WILL BE DETERMINED BY MUTUAL AGREEMENT ON BOTH PARTIES.

5-2 UNCERTAINTY

IN THE EVENT THAT ANY QUESTIONS MAY ARISE ABOUT THIS DOCUMENT OR ANY STATEMENTS NOT SPECIFIED IN THIS DOCUMENT BOTH PARTIES WILL DISCUSS AND DETERMINE A SOLUTION FAITHFULLY.

5-3 NOTE

1.PLEASE CONSIDER HAVING AN INDEPENDENT PROTECTION SYSTEM IN THE EVENT THAT THE FAN SHOULD STOP OPERATING.

2.PLEASE MAKE REFERENCE TO ATTACHED IMPORTANT NOTES & GENERAL INSTRUCTIONS AND DWG.No.:HT-001 TOGETHER WITH THIS SPECIFICATION.

6. FAN SPEED RESPONSE TO PWM CONTROL INPUT SIGNAL.

IF NO CONTROL SIGNAL IS PRESENT THE FAN SHALL OPERATE AT MAXIMUM RPM.

SPECIFICATIONS

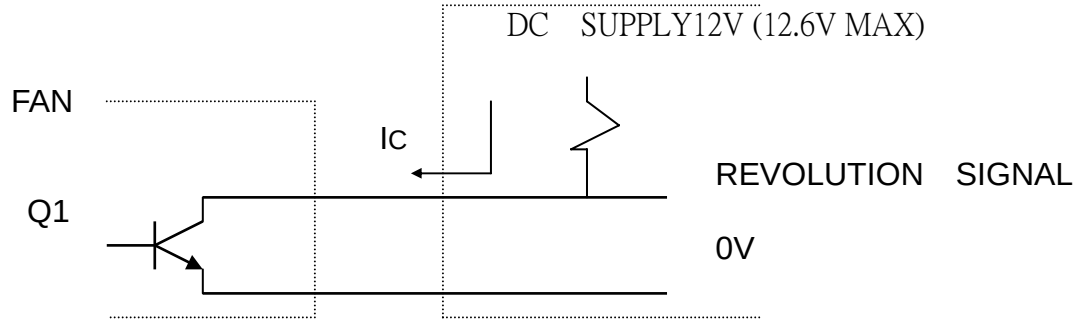
TYPE DC BRUSHLESS FAN	MODEL NO. B127515BU AF	PAGE: 4 OF 5

7. PROVISION OF REVOLUTION SIGNAL

7-1 OUTPUT OF REVOLUTION SIGNAL

.OUTPUT TYPE OPEN COLLECTOR TYPE

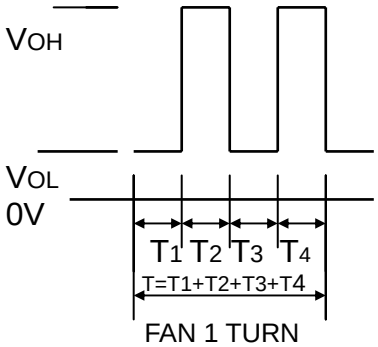
.ELECTRICAL SPECIFICATION



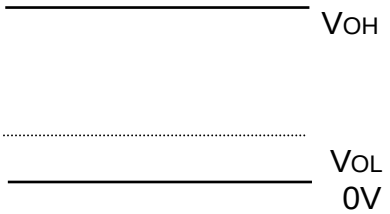
TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT I_C = 10 mA MAX.
SATURATION VOLTAGE V_{OL}= 0.5V MAX.
BETWEEN COLLECTOR AND EMITTER
AT I_C =10mA MAX.
TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE V_{OH} = 12V (12.6V MAX)

7-2 OUTPUT WAVEFORM (ACCORDING TO INPUT VOT.)

(AT REVOLUTION)



(AT LOCKED POSITION)



REMARK: AT LOCKED POSITION, OUTPUT BECOMES V_{OH} OR V_{OL}

$T=T_1+T_2+T_3+T_4=60/N$ (SEC) N : FAN SPEED (r.p.m)

$$DUTY=\frac{T1}{T_1+T_2}=50\pm10\%$$

	APPROVAL	CHECKED	DRAWING
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2008/05/14	ZHU QIAO 2008/05/14	LIU PING 2008/05/14

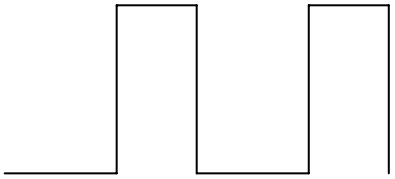
SPECIFICATIONS

TYPE DC BRUSHLESS FAN	MODEL NO. B127515BU AF	PAGE: 5 OF 5

7-3 PWM CONTROL INPUT SIGNAL:

MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL ≦0.8VDC

MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH ≧2.0VDC



---------- VIH MIN≧2.0VDC

----------VIL MAX≦0.8VDC

	APPROVAL	CHECKED	DRAWING
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2008/05/14	ZHU QIAO 2008/05/14	LIU PING 2008/05/14

SPECIFICATIONS

IMPORTANT NOTES & GENERAL INSTRUCTIONS

1. Customer shall confirm the matching and reliability of fan on actual set or unit application.
   This include confirmation on set or unit life, electrical noise, mechanical noise, vibration, static electricity, electric power noise, drift, electric resonance between motor and control circuit, mechanical resonance between motor and chassis, irregular movement of set due to motor noise, irregular movement of set in strong electromagnetic field, damaged by lightning surge earthing method etc.

2. Any revisions on the specification shall be done based on mutual discussion and agreement.

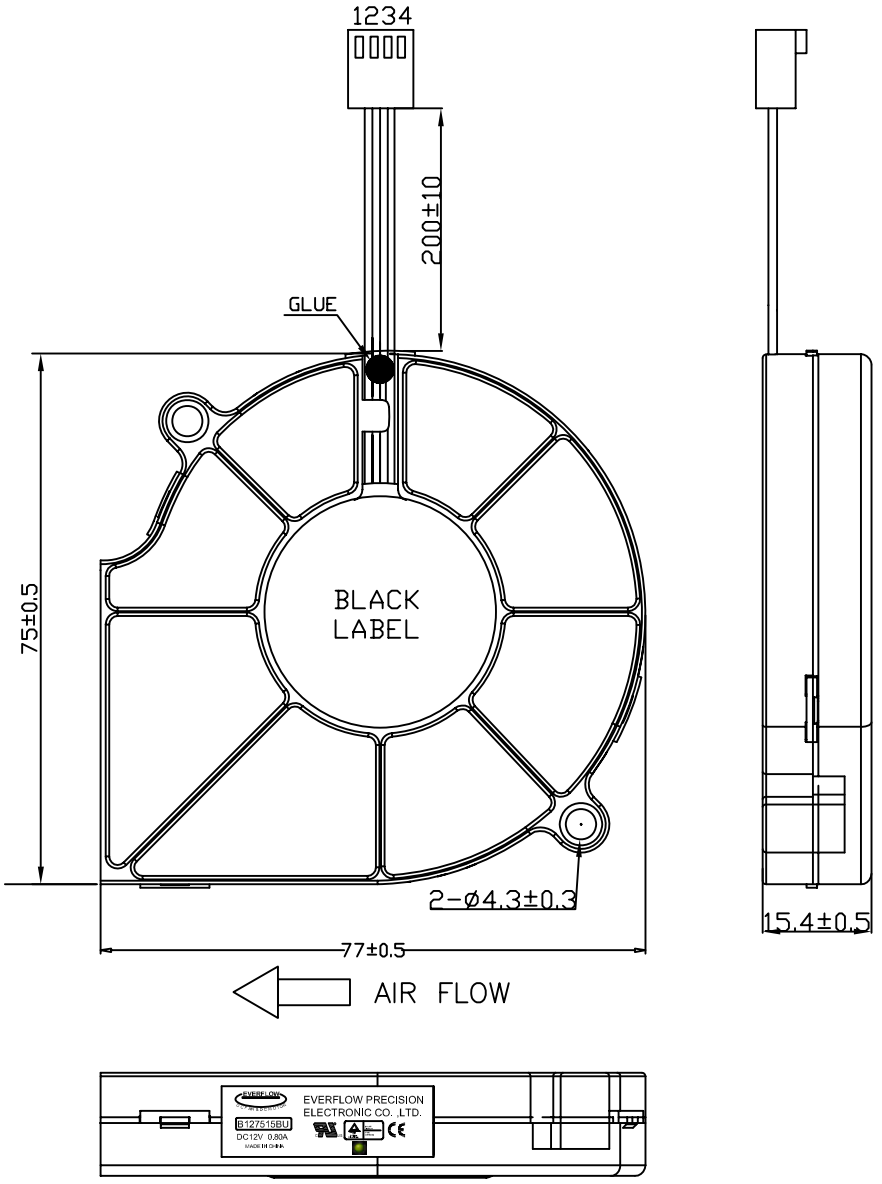
3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.

4. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given, fan will be delivered based on our standard judgment.

5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fans.

	APPROVAL	CHECKED	DRAWING
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2008/05/14	ZHU QIAO 2008/05/14	LIU PING 2008/05/14

REVISES	A



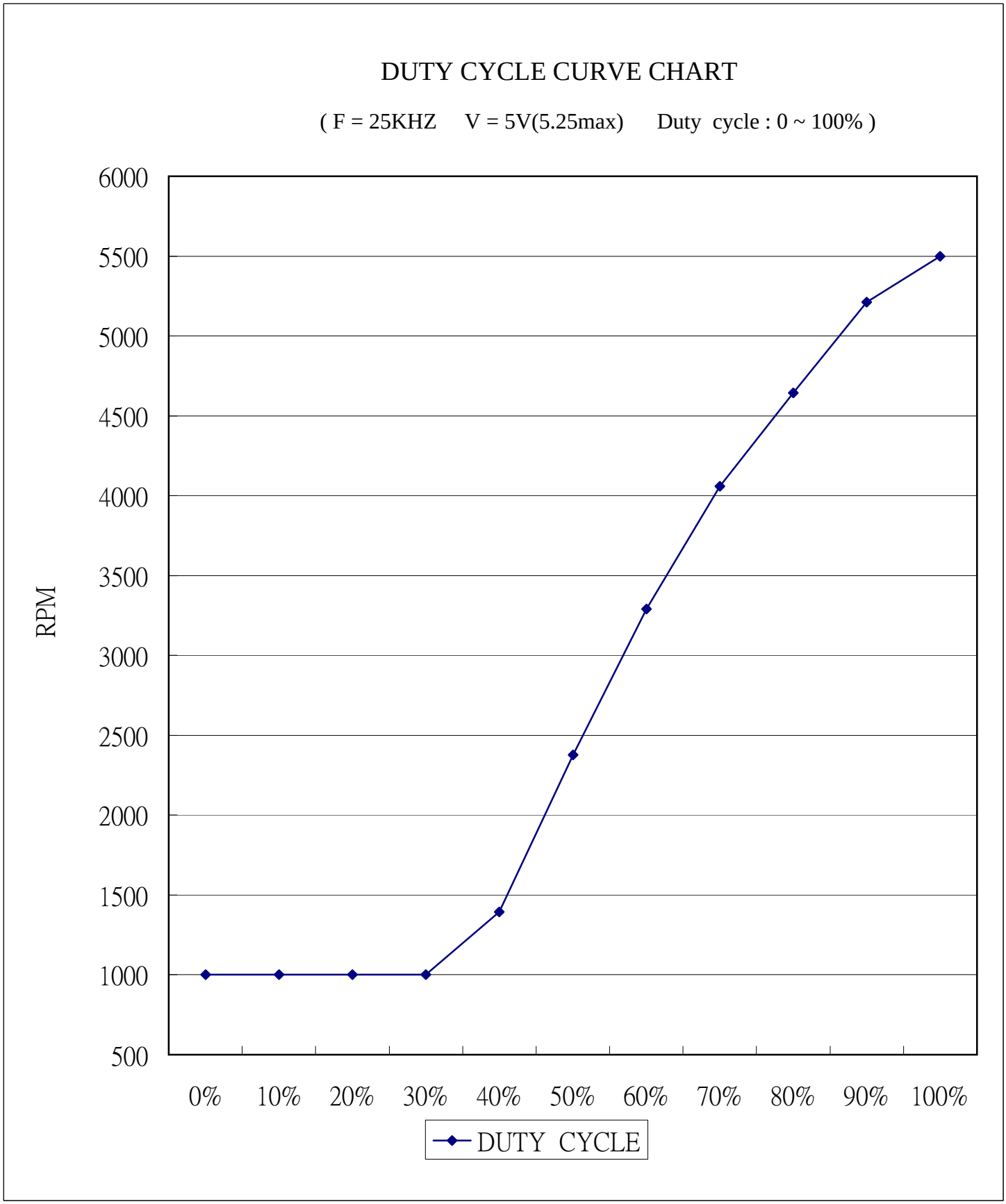
NOTES:

1. LEAD WIRE UL 1061 #26AWG OR EQUIVALENT
   - PIN 1: BLACK WIRE---(-)
   - PIN 2: YELLOW WIRE---(+)
   - PIN 3: GREEN WIRE---(SIGNAL)
   - PIN 4: BLUE WIRE---(PWM INPUT)
2. HOUSING: 2543-4P OR EQUIVALENT

TRCANGLE METHOD	UNIT: mm			MODEL NO.	B127515BU(AF0J1aR)
APPROVAL	LIU CHUN XIANG	2008/05/14		PART NAME	DC FAN
CHECKED	ZHU QIAO	2008/05/14	N		
DRAWING	LIU PING	2008/05/14		DRAWING NAME	OUTLINE
EVERFLOW PRECISION ELECTRON CO. ,LTD.			CODE	HT-001	PAGE: 1

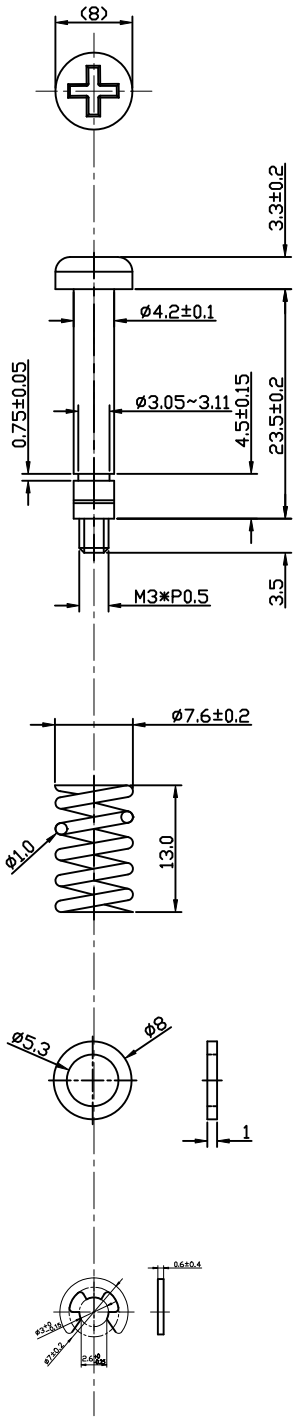
B127515BUAF0J1aR

DUTY CYCLE	SPEED (RPM)	RANGE	CURRENT
0%~30%	1000	±400	<0.10A
100%	5500	±10%	<0.80A



APPROVAL:LIU CHUN XIANG CHECKED:ZHU QIAO DRAWING:YUAN YUAN ZHOU

GP



TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
RANGE	TOL±
UNDER 6	0.18
6~10	0.22
10~18	0.27
18~30	0.33
30~50	0.39
50~80	0.46
80~120	0.54
120~250	0.63
250 OVER	0.8
ANG TOL±	1°

REV	DESCRIPTION	DATE
	REVISION HISTORY	

P/N	DESCRIPTION	QTY
4.JAS052C-3	E-RING	
3.JAS031C-3	WASHER	
2.JAS175C-2	SPRING	
1.JAS175C-1	SCREW	

DRN	YAW	10/16 2008	P/N: JAS175C
CHK	TONY		TITLE: SPRING SCREW KIT
APP	RICHARD		SCALE: -- / UNIT: M/M

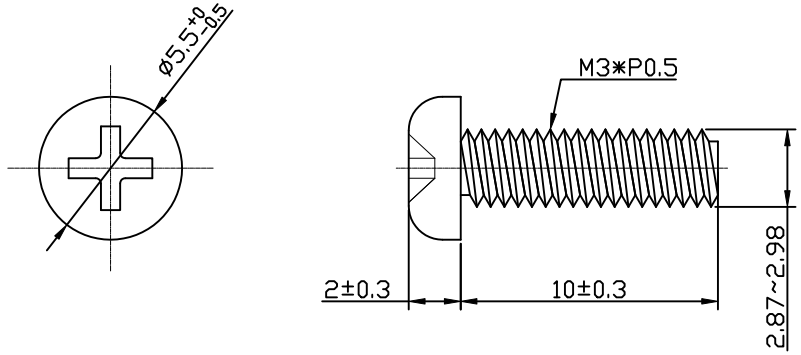
MATERIAL: --

FINISH: Anti-oxidized

REV: --

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FAX:+886 4 7383155

GP



TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
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ANG TOL±	1°

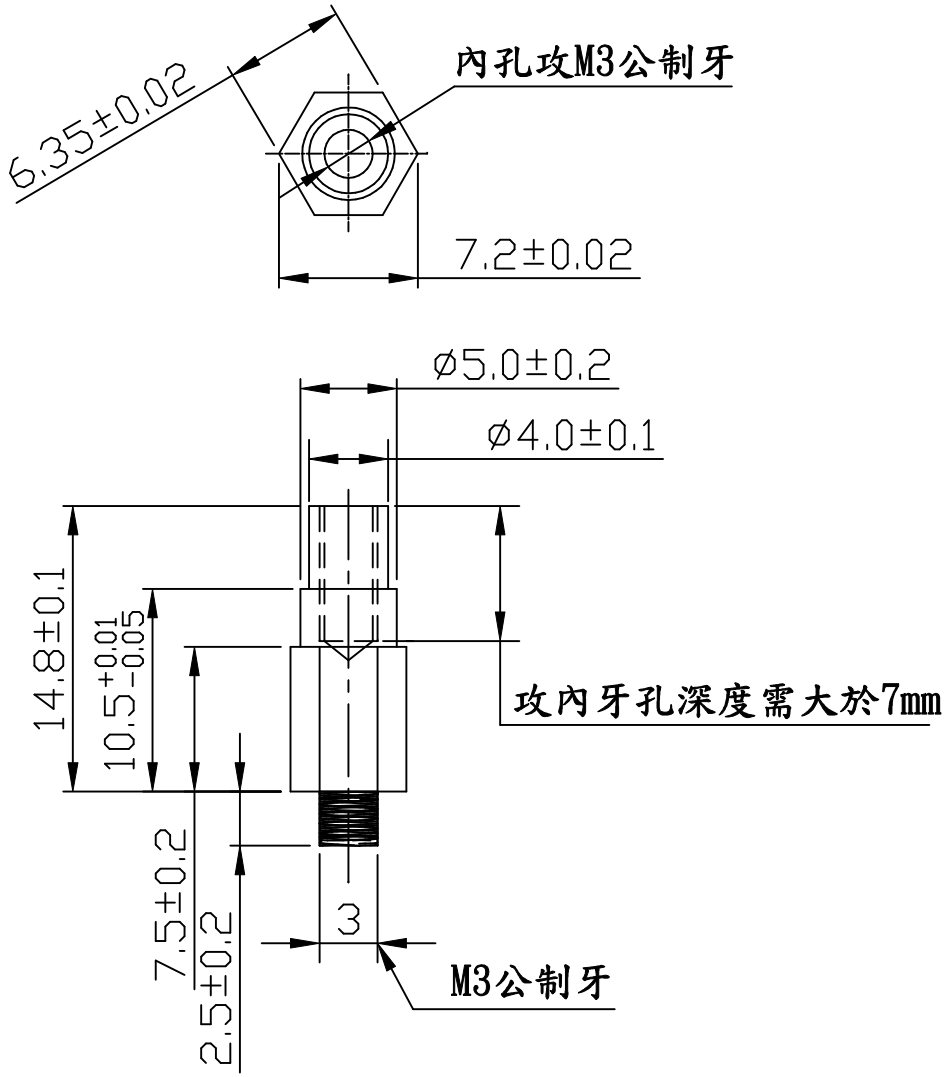
REV	DESCRIPTION	DATE
	REVISION HISTORY	

P/N	DESCRIPTION	QTY

DRN	Tony	12/12 2007	P/N: JAS095C
CHK	YAW		TITLE: SCREW
APP	Richard		SCALE: --
			UNIT: M/M

MATERIAL: SAE1018 | FINISH: NICKEL | REV: --

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TOL ± / RANGE	◯ S2
0~6	0.20
6~30	0.25
30~120	0.30
120~300	0.45
300~600	0.60
600~1200	1.10
ANG. TOL±	1°

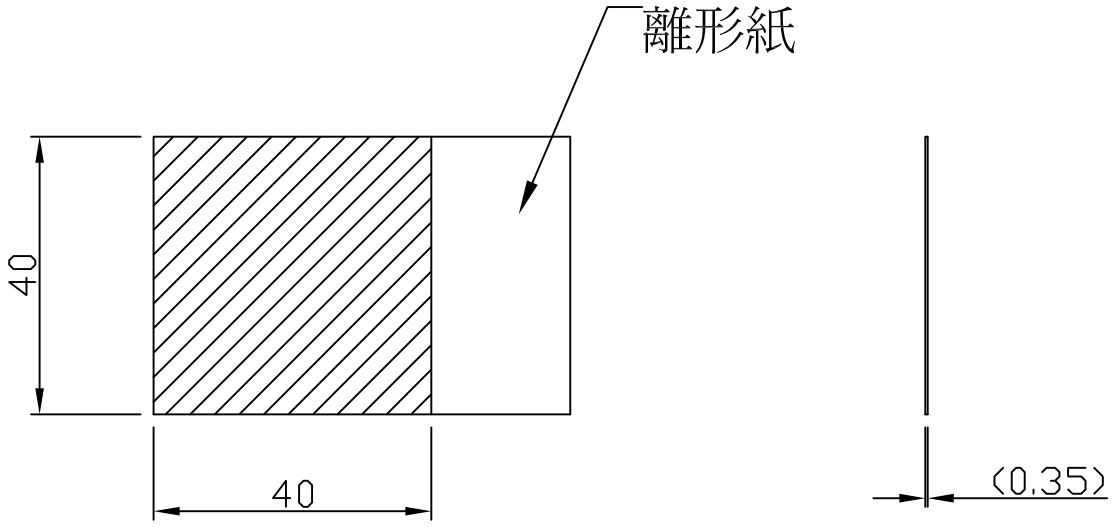
CoolJang

佳承精工股份有限公司

CHIA CHERNE INDUSTRY CO., LTD.

投影法	材質	無鉛銅	製圖	黃君平	核准	品號	JAU022
第三角法	顏色處理	去油洗淨	校核			圖號	JAU022 版本 --
	比例	2:1				圖名	六角螺柱
	單位	mm	日期	960409			

GP



TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
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REV	DESCRIPTION	DATE
REVISION HISTORY		

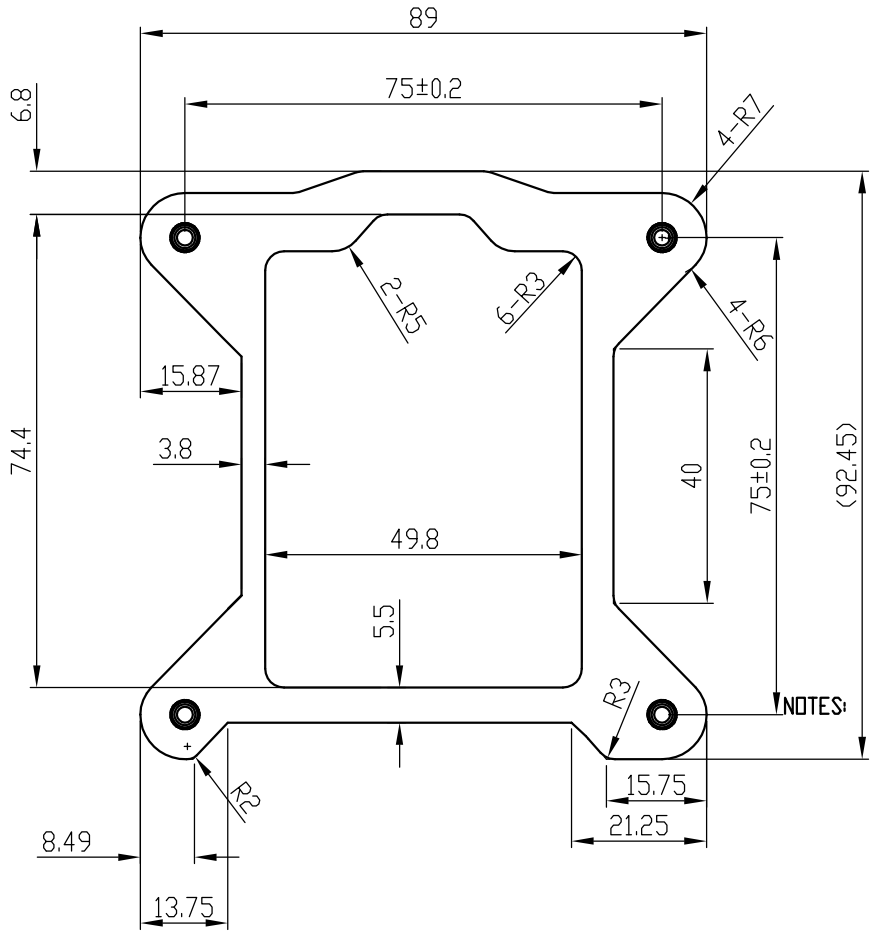
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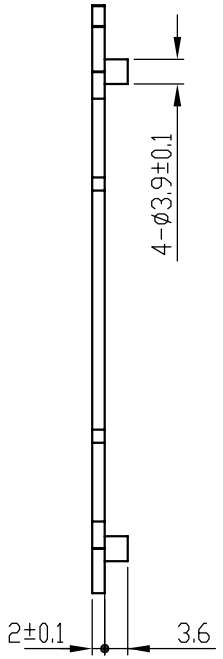
DRN	Tony	12/12 2007	P/N: JAP118E-1
CHK	YAW		TITLE: THERMAL PAD
APP	Richard		SCALE: 1 : 1
			UNIT: M/M

MATERIAL:	FINISH:	REV:
PCS-TC-11	GRAY	--

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FAX:+886 4 7383155

GP





TOLERENCE TABLE (UNLESS OTHERWISE SPECIFIED)	
RANGE	TOL±
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50~80	0.46
80~120	0.54
120~250	0.63
250 OVER	0.8
ANG TOL±	1°

REV	DESCRIPTION	DATE
	REVISION HISTORY	

MATERIAL: SPCC+SAE1215	FINISH: BLACK	REV: --	
CHIA CHERNE INDUSTRY CO., LTD. CoolJag TEL:+886 4 7323090 FAX:+886 4 7383155			

DRN	FANNY	09/02 2010	P/N: JAT257
CHK			TITLE: BACK-PLATE-V1.0
APP			SCALE: --
			UNIT: M/M