



達鉅電子股份有限公司
REGO ELECTRONICS INC.

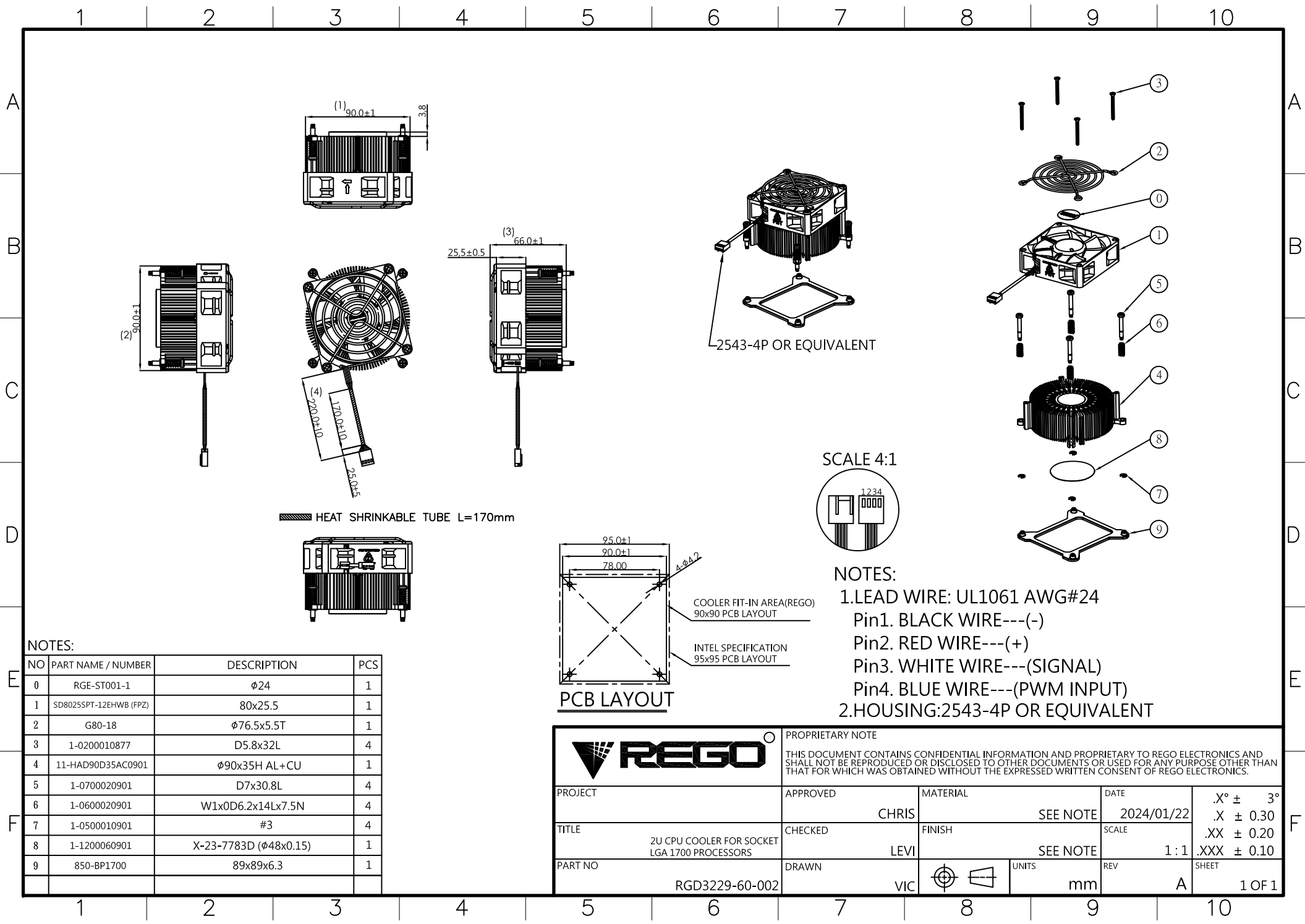
8F., No. 431, Baozhang Rd., Xizhi Dist., New Taipei City 221036, Taiwan
TEL: 886-2-2643-6558 FAX: 886-2-2643-6118 www.regothermal.com

APPROVAL SHEET

BRAND	REGO
PART NUMBER	RGD3229-60-002
DESCRIPTION	2U CPU COOLER FOR SOCKET LGA 1700 PROCESSORS
CUSTOMER	
CUSTOMER P/N	

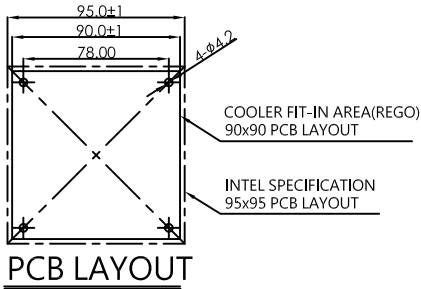
AUTHORIZED SIGNATURES

NAME			
DATE			

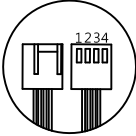


NOTES:

NO	PART NAME / NUMBER	DESCRIPTION	PCS
0	RGE-ST001-1	Ø24	1
1	SD8025SPT-12EHWB (FP2)	80x25.5	1
2	G80-18	Ø76.5x5.5T	1
3	1-0200010877	D5.8x32L	4
4	11-HAD90D35AC0901	Ø90x35H AL+CU	1
5	1-0700020901	D7x30.8L	4
6	1-0600020901	W1x0D6.2x14Lx7.5N	4
7	1-0500010901	#3	4
8	1-1200060901	X-23-7783D (Ø48x0.15)	1
9	850-BP1700	89x89x6.3	1



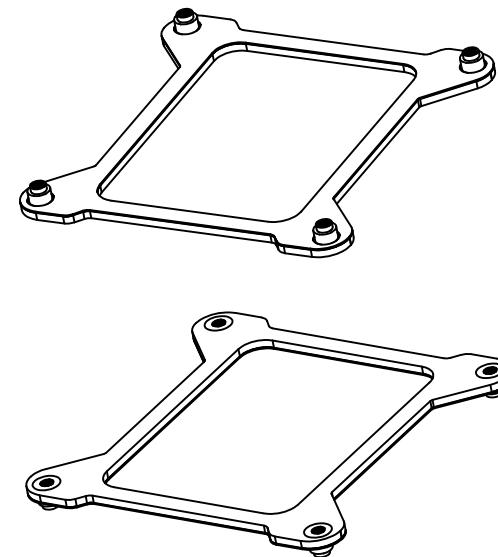
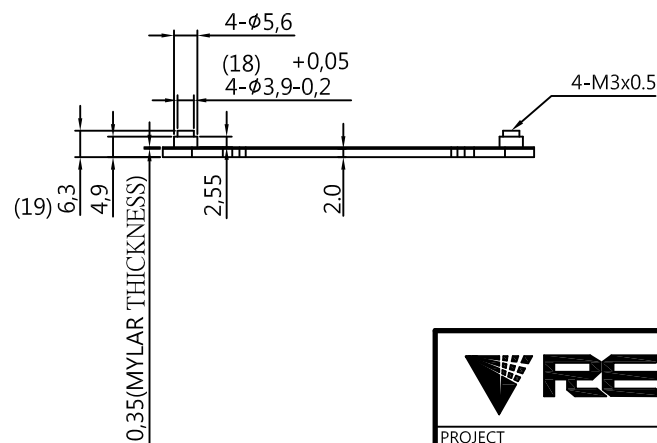
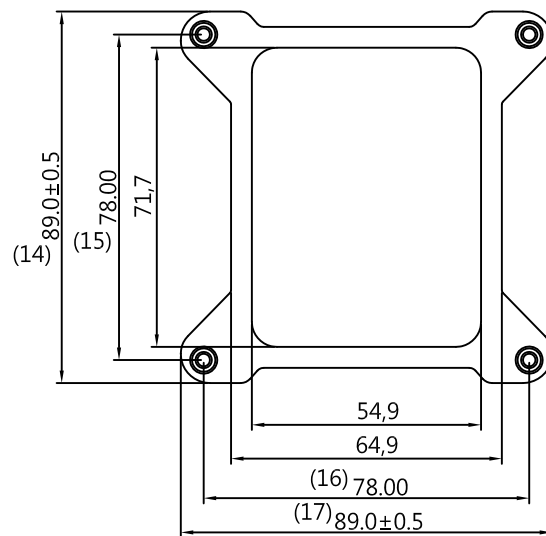
SCALE 4:1



NOTES:

- 1.LEAD WIRE: UL1061 AWG#24
- Pin1. BLACK WIRE---(-)
- Pin2. RED WIRE---(+)
- Pin3. WHITE WIRE---(SIGNAL)
- Pin4. BLUE WIRE---(PWM INPUT)
- 2.HOUSING:2543-4P OR EQUIVALENT

					PROPRIETARY NOTE			
THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION AND PROPRIETARY TO REGO ELECTRONICS AND SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHER DOCUMENTS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF REGO ELECTRONICS.								
PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3°				
	CHRIS	SEE NOTE	2024/01/22	.X ± 0.30				
TITLE	CHECKED	FINISH	SCALE	.XX ± 0.20				
2U CPU COOLER FOR SOCKET LGA 1700 PROCESSORS	LEVI	SEE NOTE	1:1	.XXX ± 0.10				
PART NO	DRAWN	UNITS	REV	SHEET				
RGD3229-60-002	VIC	mm	A	1 OF 1				



- NOTE :
1. MATERIAL: SPCC
 2. FINISH : (1) PLATE—ELECTROPHORETIC DEPOSITION BLACK (EPD BLACK)
(2) STAND OFF—ZINC PLATING
 3. MATERIALS USED MUST MEET THE ROHS STANDARD .



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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3°
	CHRIS	SEE NOTE	2021/05/18	.X ± 0.30
TITLE	CHECKED	FINISH	SCALE	.XX ± 0.20
SOCKET 1700 BACK PLATE	LEVI	SEE NOTE	1:1	.XXX ± 0.10
PART NO	DRAWN	UNITS	REV	SHEET
850-BP1700	VIC	mm	A	1 OF 1

Specification for Approval

1.Characteristics

- a. 80x80x25mm / 3.15x1inch
- b. DC Fan
- c. 105 CFM



Motor

Motor Type:	Brushless DC Motor
Burnout Protection:	Electronically protected, polarity protected
IP Protection:	-

Mechanical

Frame:	Glass fiber reinforced thermoplastic, rated UL94V-0
Impeller:	7 blades, glass fiber reinforced plastic, rated UL94V-0
Bearing:	Two ball bearings
Rotation:	CCW seen on rotor
Connection:	Wire leads + Connector
Weight:	108g

Electronical

Dielectric Strength:	500 VAC/min.
Signal Output:	Tachometer output: FG, Speed Control: PWM

Environment

Operating Temp:	-20°C~ +65°C
Storage Temp:	-20°C~ +75°C (at 65%RH)
Life Expectancy:	L10 70K hours at 40°C

Approval

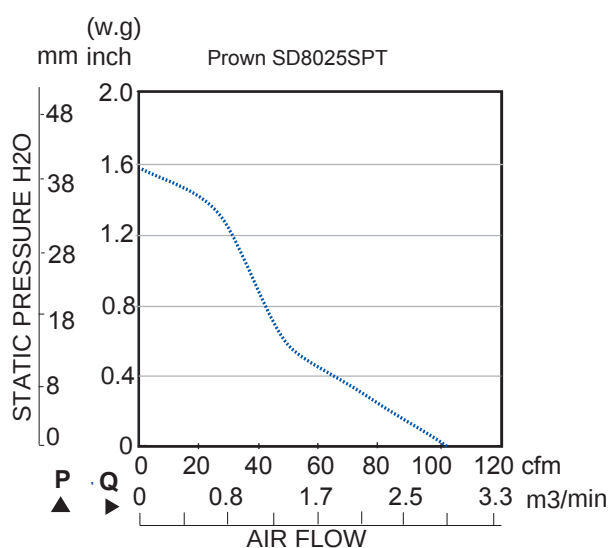


Specification for Approval

2. Test Results Data

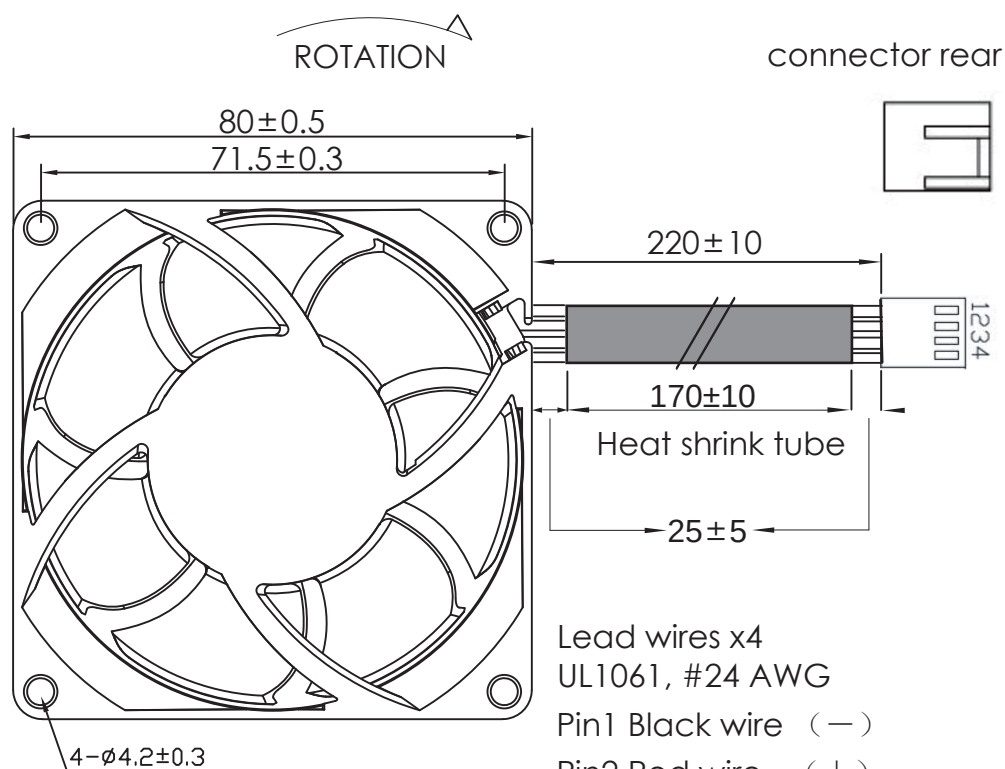
1.	Rated Voltage	VDC	12
2.	Voltage Range	VDC	7~13.2
3.	Input Power	Watt.	19.2
4.	Rated Current	Amp.	1.6
5.	Ref. Speed	RPM	9500
6.	Max Airflow	CFM	105
		m3/min	3
7.	Max Static Pressure	Inch/H2O	1.6
		mm	40.64
8.	Noise	db(A)	65
Note: Prown reserves the right to change data and improve electrical & mechanical design without notice, data tolerance $\pm 10\%$			

3. P-Q Curves

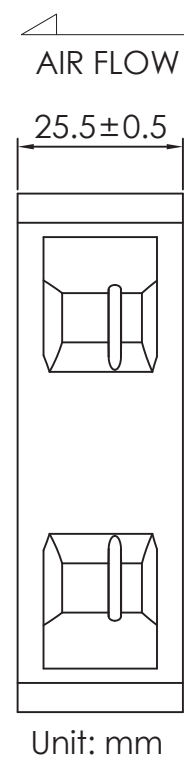


Specification for Approval

4. Drawings



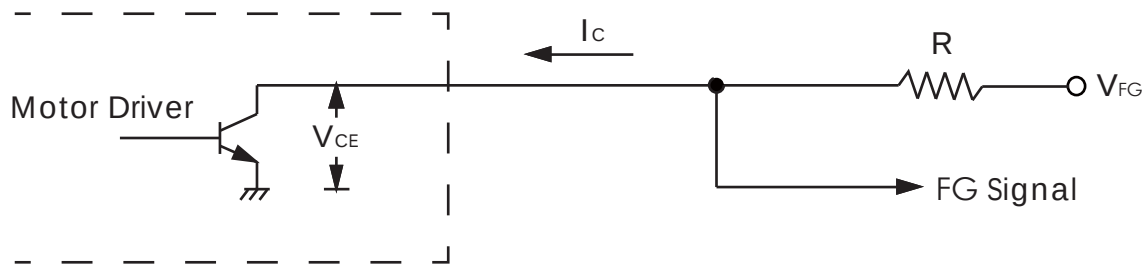
Lead wires x4
UL1061, #24 AWG
Pin1 Black wire (—)
Pin2 Red wire (+)
Pin3 White wire (FG)
Pin4 Blue wire (PWM)
Connector:
Housing: 2510-4P, 2543-4P
or Equivalent



Specification for Approval

5. Frequency generator (FG) signal

5-1. Schematic:



Caution: The lead wire of FG signal can not touch
The lead wire of positive or negative

5-2. Signal specification:

Output Type: Open Collect

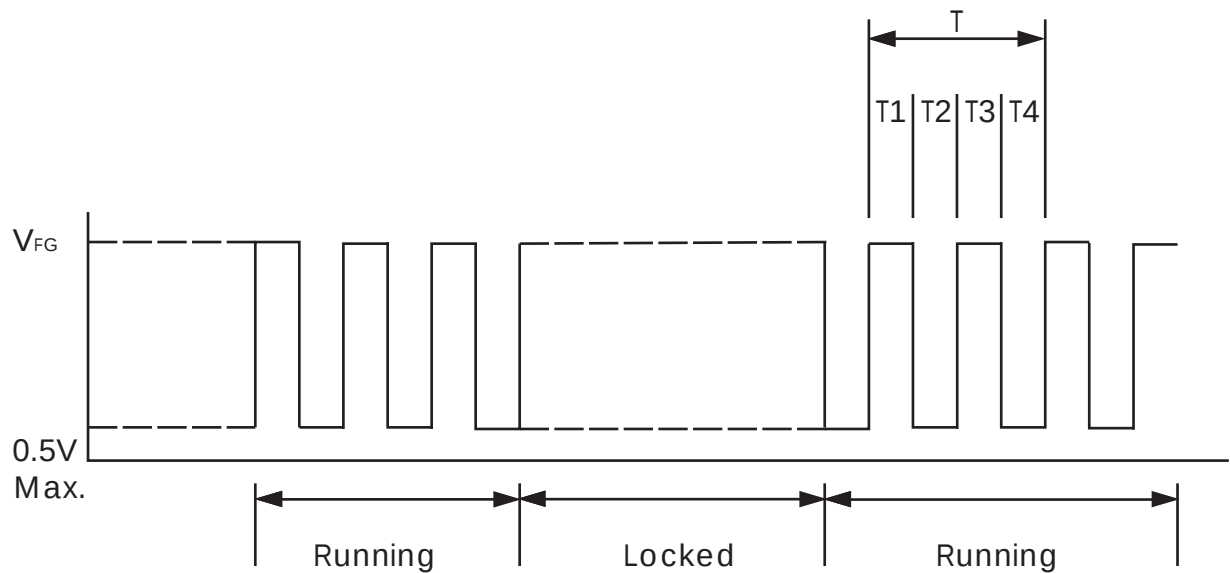
V_{FG} Maximum Voltage = 12V

I_C Maximum Current = 5mA

Low level Voltage = 0.5V Max.

$R \geq V_{FG} / I_C$

5-3. Frequency Generator Waveform:



$$T = T1 + T2 + T3 + T4 = 60/N(\text{Sec}) \quad N: \text{Speed (RPM)}$$

Specification for Approval

6. PWM Control

6-1. Signal Description

1. Control signal: PWM Control
2. Signal type:
Input high level Voltage: Min. $>2.6V$, Max. $<5V$
Input low level Voltage: Max. $<0.5V$
3. PWM frequency range: $1KHz \sim 100KHz$
4. Max. sink Current: $8mA$

6-2. Fan Speed Control

1. Input Voltage: $5VDC$
 2. PWM frequency : $25KHZ$
 3. The fan speed should run at Full speed given PWM 100% duty cycle input.
 4. The fan speed should run at Zero speed given PWM 0% duty cycle input.
 5. The fan will go to Full speed when if the control signal is disconnected.
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