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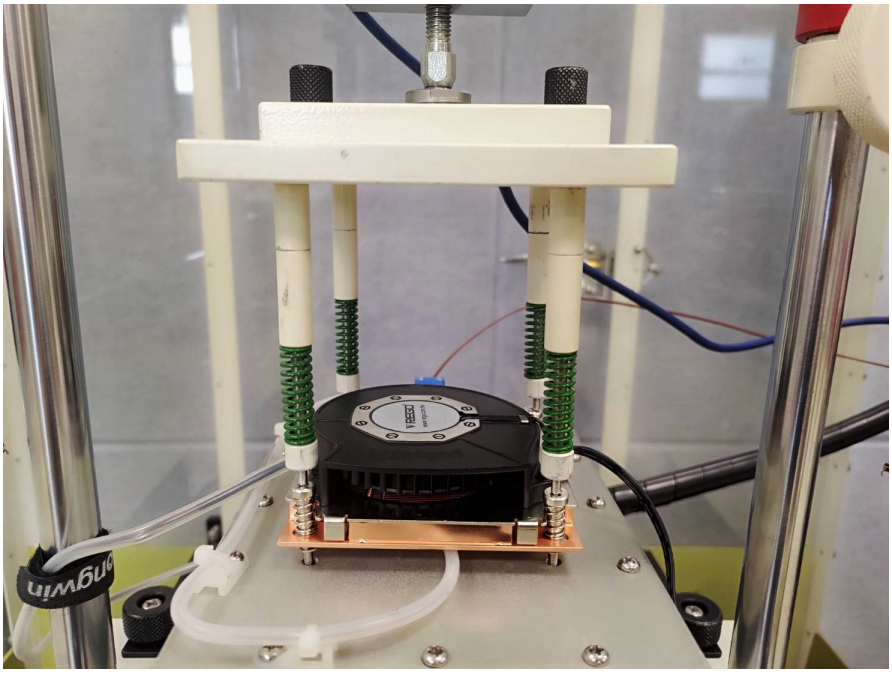
Thermal Resistance Test Report



Product Information

Part number : RGD3124AF1-BF(Z)-002

Description : 1U CPU Cooler for Intel LGA 1700 Processors, Fan 7000rpm

Test Condition

Heat Flux : (1) 35 watts (2) 65 watts (3) 80 watts (3) 125 watts

Pressure : 28 lbs / 12.7 kgs

Test Duration : 15 minutes

Ta (Ambient Temperature) : 45 ℃

Convection : Natural Convection

Test Result

Test Result : (1) Tc = 54.3℃ , R= 0.257℃/w

(2) Tc = 63.7℃ , R= 0.283℃/w

(3) Tc = 69.4℃ , R= 0.285℃/w

(4) Tc = 83.6℃ , R= 0.293℃/w

Test Data

Test:

Sample	Tc	Ta	Fan Speed	F	Q	R
1	° C	° C	RPM	kgf	W	° C/W
	54.3	45.3	7779	12.97	35	0.257
Sample	Tc	Ta	Fan Speed	F	Q	R
2	° C	° C	RPM	kgf	W	° C/W
	63.7	45.3	7787	13.08	65	0.283
Sample	Tc	Ta	Fan Speed	F	Q	R
3	° C	° C	RPM	kgf	W	° C/W
	69.4	46.6	7775	13.19	80	0.285
Sample	Tc	Ta	Fan Speed	F	Q	R
4	° C	° C	RPM	kgf	W	° C/W
	83.6	47.0	7872	13.24	125	0.293

Date:2022/09/02

Engineer: Ken

CPU Cooler Thermal Resistance Measurement Apparatus

with 4 sets of 650 watts Infrared Radiation Heaters

Operating Temperature：Room Temperature ~ 70°C。

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CPU Cooler Compression Force Test Report

Product Information

Part number : RGD3124AF1-BF(Z)-002

Description : 1U CPU COOLER 78X78 FOR SOCKET LGA 1700 PROCESSORS

Test Criterion

Total Force of CPU Cooler (Typical) : **25.05 lbs**

Total Force of CPU Cooler (Maximum) : **27.55 lbs**

Total Force of CPU Cooler (Minimum) : **22.54 lbs**

Test Result

Test Result : Pass **(Total Force of CPU Cooler =** 24.8 **lbs)**

Test Condition

- PCB Thickness : **1.6mm**
- CPU + Socket Height : **7.05mm** (According to the SPEC of Desktop Processors)

Test Data

Sample	Net Weight of Cooler	Compression Force of 4 X Springs	Total Force
1	0.79 lbs	23.81 lbs	24.6 lbs
2	0.79 lbs	24.31 lbs	25.1 lbs
3	0.79 lbs	23.91 lbs	24.7 lbs
AVG			24.8 lbs

Date: 2022/09/02

Operator: Vic Tong

Test Equipment:

1: CPU Cooler Press Load Apparatus