

Thermal Resistance Test Report

Date: 2022/06/30

Engineer: Ken



Part Number:

RGD3229-50-002

Description:

2U CPU COOLER FOR INTEL

SOCKET LGA1700

PROCESSORS

Test Condition

Heat Flux	Pressure	Test Duration	Ambient Temp	Convection
35 / 65 / 80 / 125 Watts	28lbf / 12.7 kgf	60 minutes	45°C	Natural Convection

Test Data

Sample	Tc (°C)	Ta (°C)	Fan Speed (RPM)	F (kgf)	Q (W)	R (°CW)
1	52.4	45.5	4951	12.96	35	0.197
2	60.0	46.4	4957	12.91	65	0.209
3	63.3	47.5	4966	12.89	80	0.209
4	74.3	47.1	4978	13.09	125	0.214

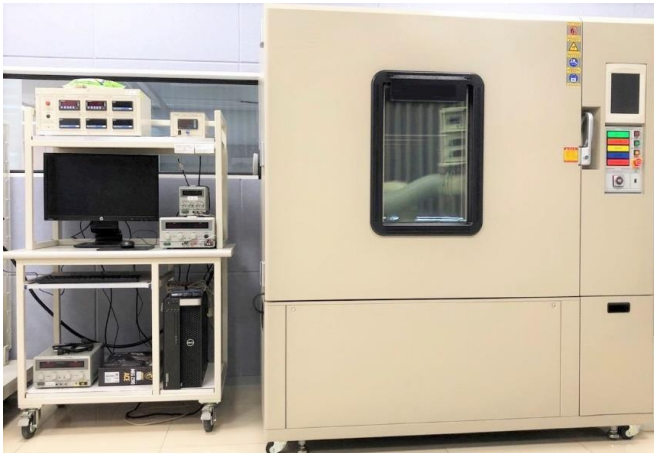
Test Result

Q (W)	Tc (°C)	R (°CW)
35	52.4	0.197
65	60.0	0.209
80	63.3	0.209
125	74.3	0.214

Thermal Resistance Test Report



NATURAL CONVECTION



CIRCULATING CONVECTION

- CPU Cooler Thermal Resistance Measurement Apparatus with Natural Convection Chamber ,4 sets of 650 watts Infrared Radiation Heaters.
- Operating Temperature : Room Temperature ~ 70°C
- CPU Cooler Thermal Resistance Measurement Apparatus with Programmable temperature and humidity chamber, Through a mechanical circulation system, using fans and heating coils.
- Operating Temperature : -40°C ~ 150°C

Compression Force Test Report



Part Number:

RGD3129-35B-002

Description:

1.5U CPU COOLER FOR INTEL SOCKET

LGA1700 PROCESSORS

Date:2022/10/11

Engineer: Vic

Test Criterion

Total Force of CPU Cooler		
Typical	Maximum	Minimum
39.16 lbf	43.08 lbf	35.25 lbf

Test Condition

PCB Thickness	CPU Height (about PCB)
1.6mm	7.05mm

Test Data

Sample	Compression Force
1	38.8 lbf
2	39.0 lbf
3	38.5 lbf
AVG	38.77 lbf

Test Result

Pass	Compression Force of CPU Cooler = 38.77 lbf
------	---

Compression Force Test Report

CPU Cooler Press Load Apparatus



- The universal clip force measuring device is a tool for measuring the clip holding force for the clip on the CPU Cooler.
- Measuring pressure range 0~220lbf,; accuracy 0.1%FS