

Thermal Resistance Test Report



Date:2023/3/16

Engineer: Ken

Test Condition

Heat Flux	Pressure	Test Duration	Ambient Temp	Convection
105/120/170Watts	28bf /12.7kgf	30 minutes	60°C	Natural Convection

Test Data

Sample	Tc (°C)	Ta(°C)	Fan Speed (RPM)	F (kgf)	Q (W)	R (°C/W)
1	67.2	58.4	3787	13.1	105	0.084
2	70.6	61.2	3792	13.3	120	0.078
3	75.5	61.5	3795	13.5	170	0.082

Part Number:

RGD3420

Description:

4U CPU COOLER FOR INTEL

LGA1700 PROCESSORS

FAN 3700RPM

Test Result

Tc(°C)	R (°C/W)
67.2	0.084
70.6	0.078
75.5	0.082

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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