



Thermal Solution Test for Nvidia RTX series

Thermal-Design Team:Bryan Lin,
Ken Chen
Dennis ChangDate:Oct 20th , 2022

WWW.REGOTHERMAL.COM



Purpose:

To better fit various MXM modules needed by customers with REGO standard cooler from adopting different conditions setting as expected.

Method:

To make it common-used, available in matching with different profiled bases for satisfying RTX A4500 and RTX 5000.

Conditions:

- **1. TDP** = 110/ 115 W
- **2. Ta** = 50°C
- 3. Tcmax shall be < 89°C
- **4. Thermal Module -** AL Stacked fins, with heat pipes and thermal grease (7762), embedded with frameless fan 70x10mm.







Analysis – Tcase for RTX A4500)

The steady Tc1 in average is **81.48°C** < Tcmax 89°C · **PASSED**







Analysis – Thermal Ranging & Air flow(RTX-A4500)





Analysis – Tcase for RTX 5000)

The steady Tc1 in average is **79.54°C** < Tcmax 89°C · **PASSED**





Analysis – Thermal Ranging & Air flow(RTX-5000)



WWW.REGOTHERMAL.COM



Conclusion

Considering the frequently asked TDP and operating temperature by MXM modules for GPU applications, here're the related test & analysis made to ensure the sufficient thermal performance to satisfy it as expected by our customers.

The thermal module has not only met the demand by Nvidia RTX-A4500, RTX-5000, but also available for semi-customizing profiled bases to satisfy rest in RTX series that is with different multi heat source arrangement.

Welcome to reach our sales teams for further information if any question or request.

Thank you. REGO Thermal Design Team







THANK YOU!

OUR TEAM IS COMMITTED TO PROVIDE QUICK RESPONSE AND PRO-ACTIVELY ASSIST OUR CUSTOMERS

THERMAL@REGO.COM.TW

WWW.REGOTHERMAL.COM