

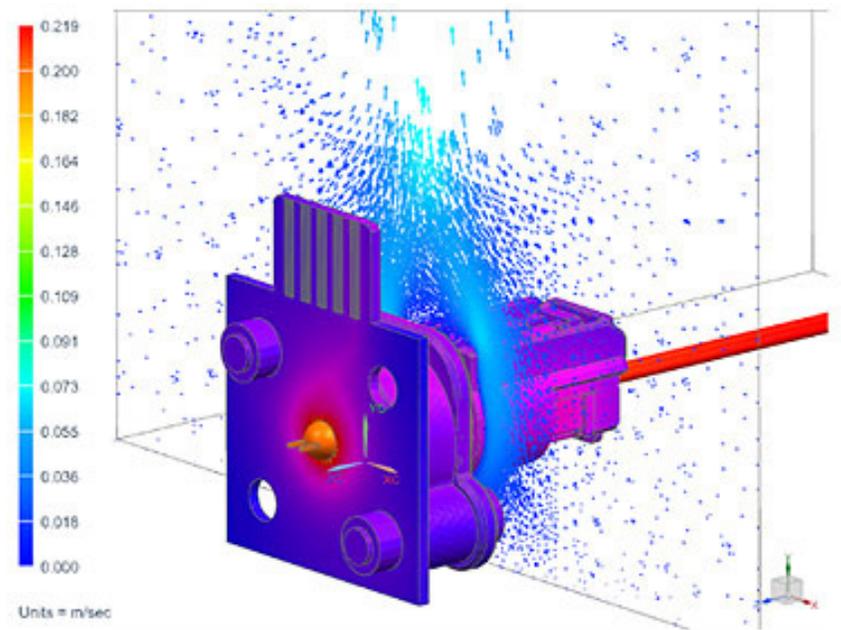
THERMAL SIMULATION > FROM MOLEX

Molex Technological Advantages Lead to Effective Solutions

Increasing demands for better performance, slimmer design and lower costs exposes electronic products to harsher conditions and reliability concerns. However, reliability is a critical factor in a product's success. These days thermal design can't be separated from mechanical and electrical design, creating a need for integrated technology like thermal simulation to provide a complete solution. Molex has more than two decades of experience in thermal simulation, integrating various engineering technologies and advanced software to provide innovative and reliable designs for major OEMs across the world.

WHY IS IT REQUIRED?

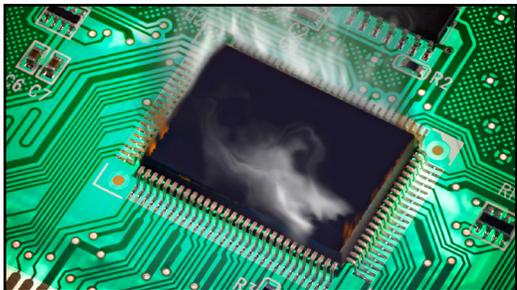
Escalating global competition across the electronics industry to release new products quickly has created a need for shorter design and development cycles. Furthermore, all products come with rigid specifications and budget limitations. Because thermal simulation can be applied at an early design stage and provides a unique visual representation of temperature and airflow, it helps engineers make better decisions and design more effective cooling systems. This, in turn, avoids expensive failures and redesign in the later stages. Thermal simulation allows engineers to experiment with optimization in a virtual environment and minimizes the number of prototypes to arrive at the right solution. In short, it makes the design process faster, safer and less expensive.



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Design and Analysis at Molex

Molex has a highly experienced thermal modeling teams that streamline the model creation process with a minimized solution time and maximum accuracy. Our engineering teams use top-notch simulation technologies that integrate mechanical computer aided software and electronic design automation to predict airflow, temperature and heat transfer and provide the right combination of design variables to meet our customer's goals. Our combined technical expertise and advanced software/ technologies allow us to provide low-cost alternatives that take into consideration the conditions, behaviors, and requirements for different environmental conditions. Molex uses advanced platforms and technologies for prototype testing; thus, customers can rest assured they will receive quality data.



APPLICATIONS

Wherever small packaging and high-performance is required. Typical applications include:

Consumer electronics

Medical electronics

Automotive electronics

Aerospace and defense electronics

Data communication



Medical Electronics



Small Packaging for Consumer Electronics



Aerospace and Defense Electronics

THE MOLEX ADVANTAGE >

Molex uses advanced thermal software/technologies combined with decades of experience in thermal simulation for electronic products across all the industries it serves. OEMs can work concurrently with Molex engineering teams in the design and development of any custom product or solution for optimized thermal, electrical and mechanical performance in specific applications.

molex

www.molex.com/capabilities/thermals.html

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