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Shin-Etsu Chemical's Thermal Interface Material Chosen by Altera to Meet 90-nm Thermal Design Challenges

PHOENIX--(BUSINESS WIRE)--July 22, 2004--Shin-Etsu Chemical Co., Ltd. (Tokyo, Japan) today announced that Altera Corporation (Nasdaq:ALT) is using Shin-Etsu's thermally conductive interface gel material in the packaging of its high-end Stratix II FPGA family. Shin-Etsu's highly thermally conductive gel material facilitates rapid heat transfer from integrated circuit (IC) packages. Altera's 90-nm Stratix II device family is 50 percent faster than other 90-nm FPGAs on the market, and this new material facilitates the dissipation of the heat generated during operations.

"The rigorous thermal requirements of this 90-nm family of devices housed in flip-chip, lead-free packages were met by applying Shin-Etsu's thermal interface material," said Tarun Verma, director of package engineering at Altera. "Shin-Etsu's material exhibits excellent thermal characteristics, and its low modulus helps absorb stress between the integrated heat spreader in the package and pressure sensitive-low-k dielectric material in the silicon."

Featuring an innovative new logic structure, Stratix II devices offer over twice the logic density and 50 percent higher performance at 40 percent lower cost than first-generation Stratix devices. They offer more than double the logic density and are 50 percent faster compared to the nearest competitive devices. The new logic structure allows designers to conserve device resources by packing more functionality onto a smaller area. For more information about Stratix II devices, please visit www.altera.com/stratix2.

About Altera

Altera Corporation (Nasdaq:ALTR) is the world's pioneer in system-on-a-programmable-chip (SOPC) solutions. Combining programmable logic technology with software tools, intellectual property, and technical services, Altera provides high-value programmable solutions to approximately 14,000 customers worldwide. More information is available at www.altera.com.

About Shin-Etsu

Shin-Etsu Chemical Co., Ltd., the Tokyo based chemical company, is the world's largest supplier of semiconductor materials, semiconductor silicon, PVC resin, synthetic quartz glass and methylcellulose and is a major producer of materials including silicones and rare earth magnets. The company's home page on the world wide web is located at http://www.shinetsu.co.jp.

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Shin-Etsu MicroSi Inc. is a wholly owned subsidiary of Shin-Etsu Chemical Co., Ltd., a global leader in research, development and the manufacture of chemicals used in the semiconductor industry. From its headquarters in Phoenix, Arizona, Shin-Etsu MicroSi provides high performance products and materials.

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