



CISSOID
The Leader in High Temperature Semiconductor Solutions
The Pioneer in Silicon on Insulator (SOI)

PRESS RELEASE

CISSOID introduce a new High Temperature General Purpose Operational Amplifier

Louvain-la-Neuve, Belgium – May 2008. CISSOID, a leader in high temperature semiconductor solutions and the pioneer of Silicon-on-Insulator (SOI) products, announced today the release of their **Quad High Temperature General Purpose Operational Amplifier for extreme temperatures**. The product (CHT-OPA) is optimized for High-Temperature, High Reliability applications. This amplifier is a new major building block to realize High-Temperature systems such as sensor interfaces, buffers, filters and pre-amplifiers for ADC.



CHT-OPA fits market requirements for Oil&Gas, Aeronautics, Space and Automotive applications with large temperature range from -55°C to 225°C . It can operate with both single and symmetrical power supply from 4.5V to 20V. The gain of the amplifier ranges from 100dB at -55°C to 80dB at high temperature with a Gain Bandwidth Product of 1.8MHz and a typical offset of 2.5mV. The output current capability is up to 15mA.

Beyond the standard operating conditions, the CHT-OPA has been tested with success from -200°C to $+300^{\circ}\text{C}$ (with derated merit factors), which gives it an absolute record operating range of 500°C . Therefore, the amplifier can be used in applications as diverse as geothermy with extremely High Temperature, and planetary missions with cryogenic conditions.

This new general purpose amplifier is part of Cissoid's 'product roadmap', offering customers a more and more complete portfolio of Extreme Temperature Electronics components. CHT-OPA is an essential building block for complete High Temperature systems. Together with Cissoid's Analog-to-Digital converter (ADC), voltage regulators and voltage references, oscillators and timers, customers can design virtually any function for Extreme Temperature. Functionality beyond the standard temperature range of -55°C to 225°C also shows the robustness of Cissoid's complete development process, from silicon design to every detail of the assembly and test.

CHT-OPA is now shipping in pre-production and is packaged in a hermetic ceramic DIL14, in quad configuration. The CHT-OPA-DIL14 is priced at 175€/unit for 10 units. For more information, visit www.cissoid.com or contact the company's representatives. Other packages or dual version are available on request.

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About Cissoid - www.cissoid.com

Cissoid is a leader in high temperature electronics providing monolithic semiconductor solutions, and the pioneer in Silicon-on-Insulator (SOI) products with over 20 years of background and R&D in SOI. As a leading fabless semiconductor company, Cissoid delivers standard products and custom solutions meeting high temperature requirements, primarily to the Oil & Gas, Aerospace and Automotive markets.

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