



Opto Technology, Inc.

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FOR IMMEDIATE RELEASE

**OPTO TECHNOLOGY ANNOUNCES NEW INTEGRATED HEATER HYBRIDS
FOR A VARIETY OF BIO-MEDICAL APPLICATIONS**

WHEELING, ILL., June 3, 2002 – Opto Technology, Inc., a leading manufacturer of optoelectronic related products for the medical industry, today announced a new product family of integrated optical heater hybrids for applications requiring small, low profile heating elements to provide for thermal reactions. The OTHP-Series heaters can also be integrated with various temperature control and optoelectronic technologies for a complete heating solution. Each heater hybrid is customized for the required heating application.

Opto Technology, Inc.'s heater hybrids are comprised of an aluminum nitride (AlN) substrate with a thick film resistance layer, which is designed to fit the customer's specific design requirements. The AlN substrate offers excellent thermal coefficient properties for a uniform heating temperature and provides high heat transfer rates.

Application specific options include an onboard thermistor for temperature feedback and an onboard thermal fuse for avalanching temperature control. Optoelectronics options incorporated within custom designs include light emitting diodes (LEDs) – 430nm to 940nm – for heating/sensing applications and photodetectors (photodiodes and photo ICs) used for ambient light detection and distance measurement. The electrical connection is achieved using flexible printed circuit board (PCB), wire and lead termination.

General design parameters include a Watt density from 25W/in² to 100 W/in². Temperature coefficients can vary and range from 170 to 190 W/M K. Physical sizes of all custom heater hybrids vary depending on application.

Potential applications for the OTHP-Series heater hybrids include: medical DNA amplification for polymerase chain reaction (PCR); blood coagulation and glucose meters; chemical analysis and diagnostic equipment; urine analysis and temperature cycling for biological samples.

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OTHP-Series Hybrid Heaters
Add 2-2-2-2

Optical heater hybrids have applications in heating and illuminating whole blood in a meter. Blood excitation modules incorporate LEDs, photodetectors and interference filters for illuminating blood samples and detecting reflective fluorescent light. Multiple LED arrays incorporate wavelengths from 430nm to infrared for illuminating blood samples with several wavelengths.

-30-

Headquartered in Wheeling Illinois, Opto Technology, Inc. has been a leading manufacturer of optoelectronic related products since 1973. The company has provided a unique contribution to the development of the optoelectronic industry through standard products and singular product innovations. Opto Technology is dedicated to solving customer's application problems with highly innovative heater hybrid systems using opto-hybrid designs and technology. For additional information, please contact Opto Technology, Inc., 160 E. Marquardt Drive, Wheeling, IL; phone: (847) 537-4277; fax: (847) 537-4785; or visit our Web site at: www.optotech.com.