

PRESS RELEASE SEPTEMBER 2007

FOR THE FINE PRINT: *ALLTEC LF050*

Unique 5 Watt continuous wave fiber laser marker applies the smallest and finest codes

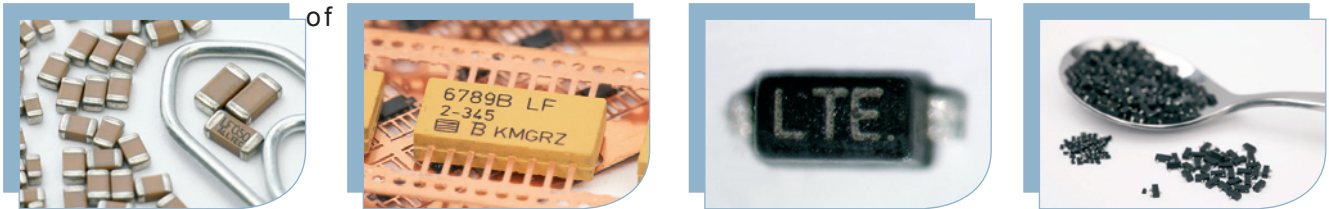
Selmsdorf, 10.09.2007 – With *ALLTEC LF050* the ALLTEC Laser Business Unit introduces a novel 5 Watt

continuous wave fiber laser marking system for marking and coding smallest parts with highest resolution and accuracy. The innovative system has been primarily designed with the electronic component market in mind where molded housings of discrete and integrated components as well as circuit boards have to be marked precisely, with high quality and in the shortest of time. Moreover, the *LF050* is also suitable for marking foils, films, bags and composite packagings used in the packaging industries.

„With ALLTEC LF050 we are supporting our customers in the electronics and components industry, with a system that allows them to continue their drive towards marking ever smaller components“ states Manfred Suddendorf, Product Manager for the ALLTEC Laser Business Unit. *„The system can achieve character heights below 150µm with line widths well below 30 µm. Our novel hardware and software integration concept delivers a system that is especially easy to integrate into production environments such as component handling and testing lines, while offering reliable, essentially maintenance-free operation.“* Thanks to it's wavelength that is 10 times shorter than that of a CO₂ laser marker, it's high beam quality and the use of the superior galvanometer scanning technology the system marks with high resolution, fast, precise and with excellent legibility. Thanks to it's efficient, air-cooled laser source (50,000 hours est. maintenance-free operation) *LF050* works reliably and is easy to maintain. Finally, the world wide unique mechanical integration concept with it's dovetail joint, the integrated fine height adjustment, a five meter detachable fiber conduit and it's small and compact system design ensures that *LF050* integrates easily, flexibly and quickly into any production environment.

The fiber laser marker has been primarily designed for the precise, high resolution, high accurate and fast coding of molded housings (discrete and integrated components) and circuit boards. Moreover, the *LF050* is also suitable for marking foils, films, bags and composite packagings used in the packaging industries. With marking speeds up to 800 characters per second and line speeds up to 10 meters per second (depends on the used specifications and application) *LF050* applies a variety of contents (expiry and manufacturer dates, lot and line numbers, ID matrix and bar codes, graphics, individual data, etc.) in the shortest





From left to right: Ceramics capacitors marked with LF050; IC on lead frame color change marked with LF050; mini and micro ICs compared to the size of a small (!) teaspoon; micro IC marked with LF050 (line width 30 μm , photograph taken under microscope)

time and in uncompromising quality – both on moving (on-the-fly marking) and non moving products and components. Finally, the high accuracy marking field correction option that ensures the calibration of the system, enables that all codes – as small as they might be – will be applied exactly where they should be applied. This is especially important in the semiconductor industry with it's components that are ever shrinking in size.

Additional advantages of the ALLTEC LF050 are the choice of many languages available on the user interface (e.g. English, Chinese, German, and more than ten more) and the overall flexibility of the already proven Windows®-based Smart Graph software, which also provides multiple password-protected security levels. Competitively priced, absolutely reliable not only regarding it's component's life-time and with minimal running costs (no inks, solvents or compressed air), the small system sets new standards for economy and stands for virtually maintenance-free operation over thousands of hours. In addition, the laser tube life is prolonged by a simple air-cooling system.

For further information or responses please contact:

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Editorial images:

- 5 Watt continuous wave fiber laser marker ALLTEC LF050
- Images of typical applications (see above)

ALLTEC is an international market and technology leader in the development and manufacture of laser marking solutions. Since 2004, ALLTEC has been part of Danaher Corporation, a Fortune 500, New York Stock Exchange listed company. As part of the Danaher Product Identification Platform, the **ALLTEC Laser Business Unit** is a technology center of excellence for the development of laser marking solutions in the product identification market. The ALLTEC Laser Business unit's products are introduced to the market via a global sales network. **ALLTEC. Experts in Laser Marking.**