

## **High Performance THz Polarizers and Band-Pass filters based on thin films.**

*Eugene, OR, May 8<sup>th</sup>, 2012.* Microtech Instruments, Inc. announces availability of thin-film THz polarizers and band-pass filters. These and several other new products will be on display at CLEO exhibit in San Jose, CA (booth #1927) from May 8<sup>th</sup> to May 10<sup>th</sup>, 2012.

***Thin Film Terahertz Polarizers*** are designed for application in 0.1-3.0 THz range. The polarizers consist of an array of metal stripes fabricated on a polymer membrane using ultrafast laser micromachining technique. Typical stripe width and spacing are about 15  $\mu\text{m}$ . THz thin film polarizers provide for performance comparable to free-standing wire grids, such as G25s and G30s, made of 10  $\mu\text{m}$  wires spaced by 25  $\mu\text{m}$  and 30  $\mu\text{m}$ , respectively.

Main advantage of thin film THz polarizers is significantly larger clear aperture – up to 90 mm in diameter. For comparison, G25s wire grid polarizers are only available with clear apertures of 40 mm.

More information on Thin Film Terahertz Polarizers is available at: <http://www.mtinstruments.com/2012%20Datasheets/thin%20film%20Polarizers.pdf>

***Band-Pass Terahertz Filters*** enable selection of narrow (<100 GHz) frequency bands in spectral range of 0.1-1.2 THz. More information on Band-Pass Terahertz Filters is available at: <http://www.mtinstruments.com/2012%20Datasheets/Band%20Pass%20filters.pdf>

About Microtech Instruments, Inc.

Microtech Instruments is a manufacturer of advanced scientific instruments for ultrafast Laser Micromachining, Coherent Raman, Multi-photon and Terahertz imaging and spectroscopy applications. Serving the global research community for over 15 years, Microtech collaborates with leading research organizations worldwide.

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