



ATION

TEC-450 Diode Laser Based CW THz Generation

US Patent 5,867,512 | US Patent 6,297,066 | US Patent 6,869,483 | US Patents pending

Depending on the power requirements of the frequency mixer crystal, an amplification stage is included for boosting the carrier wave with the beat signal via a modified Master Oscillator Power Amplifier (MOPA) configuration.

Special features are:

Excellent tuning behavior

- coarse and fine tuning modes of the master lasers
- fine tuning via piezo actuator with a resolution better than 10MHz
- manual coarse tuning up to 20THz
- large mode-hop free tuning range of up to 100GHz and more

Narrow linewidth of seed lasers

- linewidth < 300kHz
- excellent side mode suppression > 50dB and >35dB after amplifier

Flexible schemes of realization

- THz system based on tunable Littman / Metcalf master lasers with free beam optics
- THz system based on tunable DFB master lasers with free beam optics
- THz system based on fiber coupled tunable DFB master lasers
- THz system based on Butterfly packaged, fiber coupled tunable DFB master lasers

Plug & Play configuration

- automated wavelength tuning
- remote control via GPIB, RS232 and USB

CONTACT & LEGAL



For further information about the product or support requests, please contact your local person in charge.

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