

# Sub-Terahertz components

## ➤ High-power high-bandwidth multipliers

Based on planar GaAs Schottky diodes

High-power components

High bandwidth >12%

300 GHz and 600 GHz

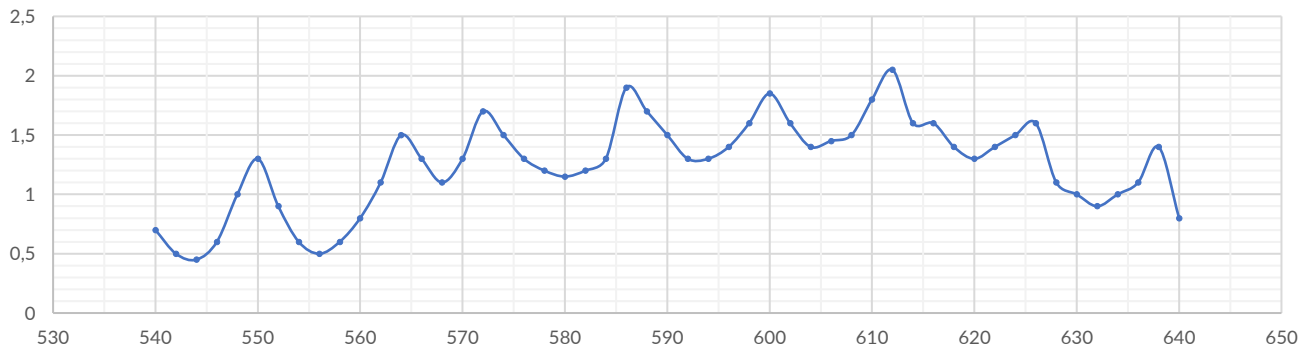


Lytid's range of high power frequency **multipliers** provide state-of-the-art performances across the sub-terahertz band. These frequency doublers are commonly used to extend the frequency range of microwave and mmW sources towards higher frequencies. The doublers are based on planar GaAs Schottky diode technology

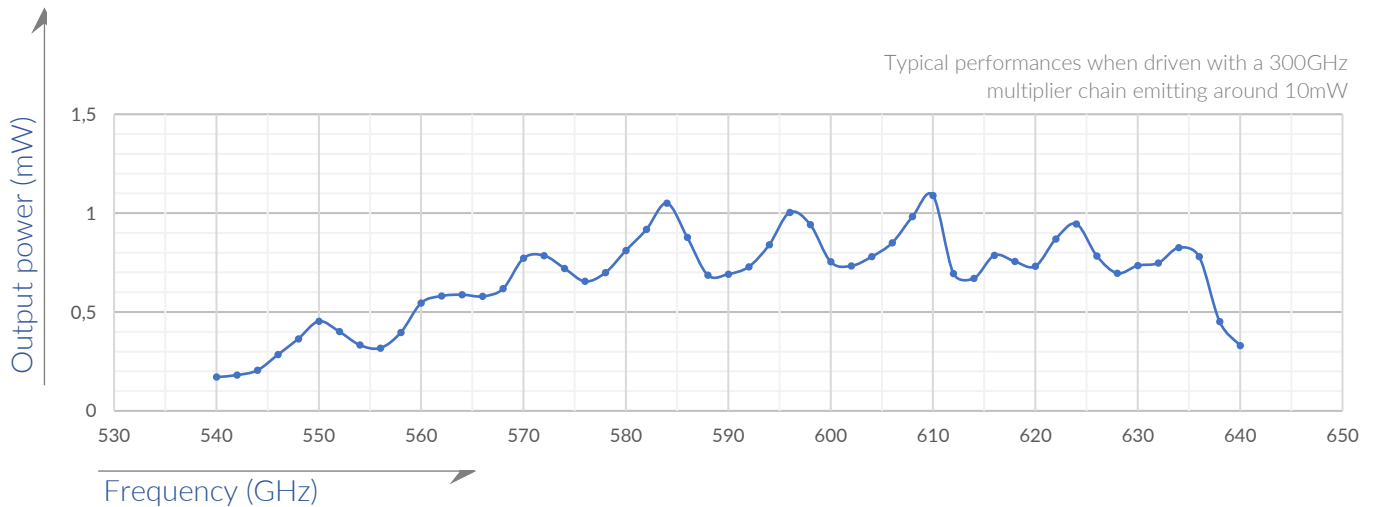
derived from European Space Programs. The frequency coverage of more than 12% of the central frequency and the conversion efficiencies are unmatched on the market. These cutting edge sub-terahertz components will help you extend your current setup by providing unparalleled performances and possibilities.

# 600 GHz doubler

Typical performances when driven with a 300GHz multiplier chain emitting around 20mW



Typical performances when driven with a 300GHz multiplier chain emitting around 10mW



## Features:

- Fullband operation
- Planar GaAs Schottky diode technology
- No mechanical tuners
- Bias required for optimum performances

## Applications:

- Frequency extension of microwave and mmW sources
- Detector characterization in the sub-THz range
- High spectral purity spectroscopy

| Technical specifications | 600GHz doubler  |
|--------------------------|-----------------|
| <b>Electrical data</b>   |                 |
| Bias                     | 3-6V DC typ.    |
| Connector                | SMA             |
| <b>Input port data</b>   |                 |
| Frequency                | 270 - 320 GHz   |
| Port                     | WR3.4(UG387/UM) |
| Power                    | <25mW           |
| <b>Output port data</b>  |                 |
| Frequency                | 540 - 640 GHz   |
| Port                     | WR1.5(UG387/UM) |
| Power                    | Typ. up to 2mW  |
| <b>Performances</b>      |                 |
| Conversion Efficiency    | 10%             |

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