

Sub-Terahertz components

➤ High-power high-bandwidth multipliers

Based on planar GaAs **Schottky diodes** technology

State-of-the-art performances

High-power components

300 GHz and 600 GHz

High bandwidth >12%

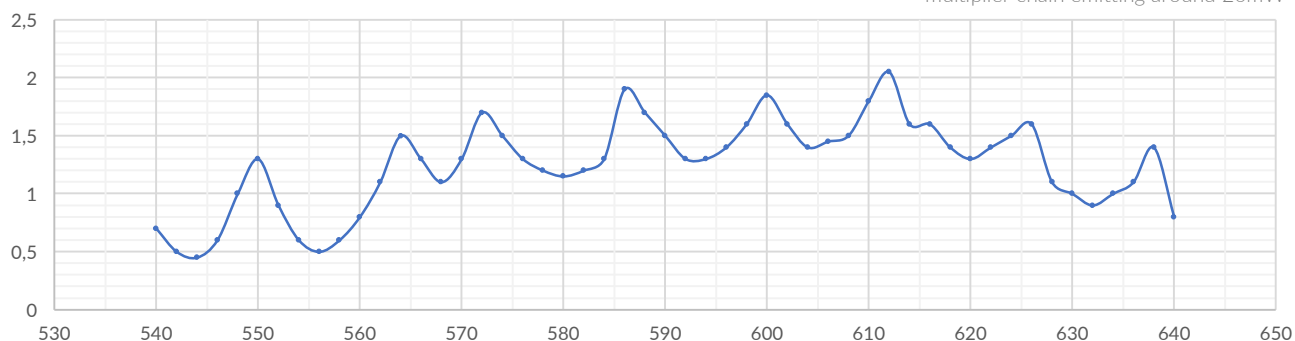


Lytid's range of high power frequency multipliers provide state-of-the-art performances across the sub-terahertz band. These frequency doublers are commonly used to extend the frequency range of microwave and mmW sources towards higher frequencies. The doublers are based on planar GaAs Schottky diode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

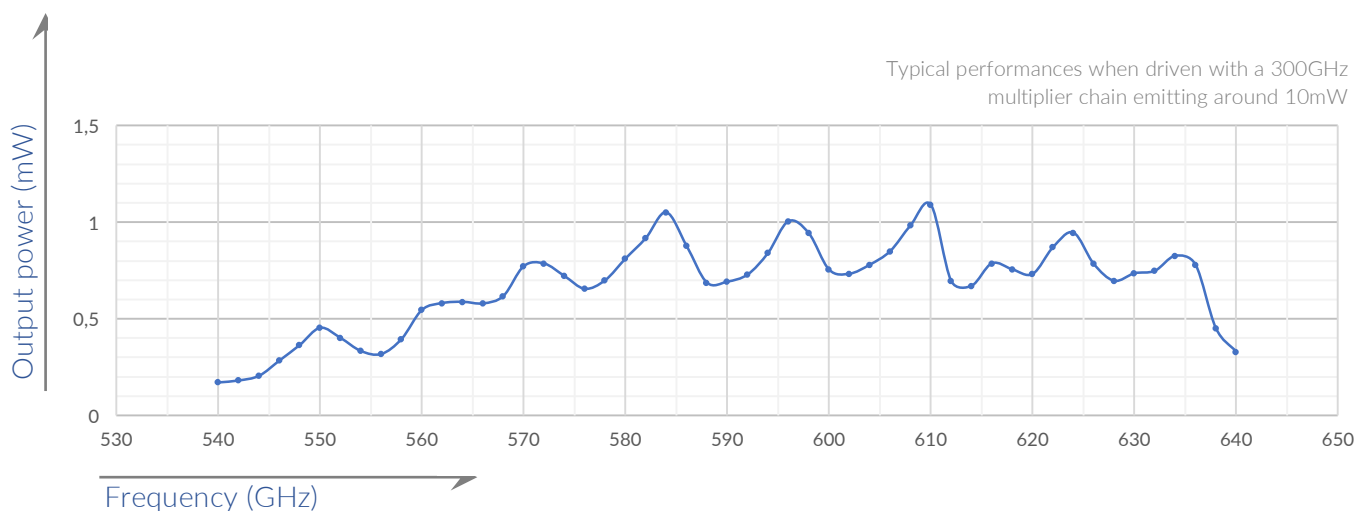
laboratory of the Observatoire de Paris in France. The frequency coverage of more than 12% of the central frequency and the conversion efficiencies are unmatched on the market. These cutting edge sub-terahertz components will help you extend your current setup by providing unparalleled performances and 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
Electrical data	
Bias	3-6V DC typ.
Connector	SMA
Input port data	
Frequency	270 - 320 GHz
Port	WR3.4(UG387/UM)
Power	<25mW
Output port data	
Frequency	540 - 640 GHz
Port	WR1.5(UG387/UM)
Power	Typ. up to 2mW
Performances	
Conversion Efficiency	10%