Sub-Terahertz components

High-power high-bandwidth multipliers

Based on planar GaAs Schottky diodes

High-power components

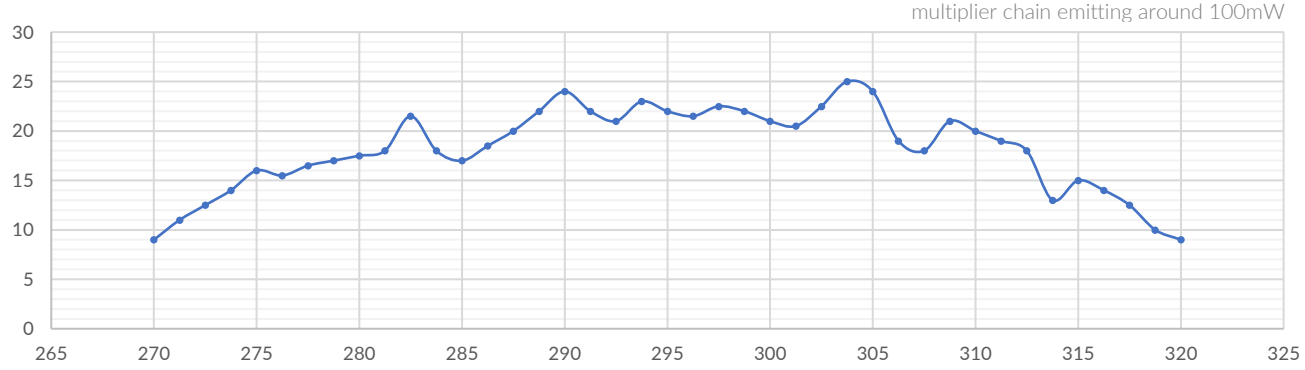
High bandwidth >12%

300 GHz and 600 GHz

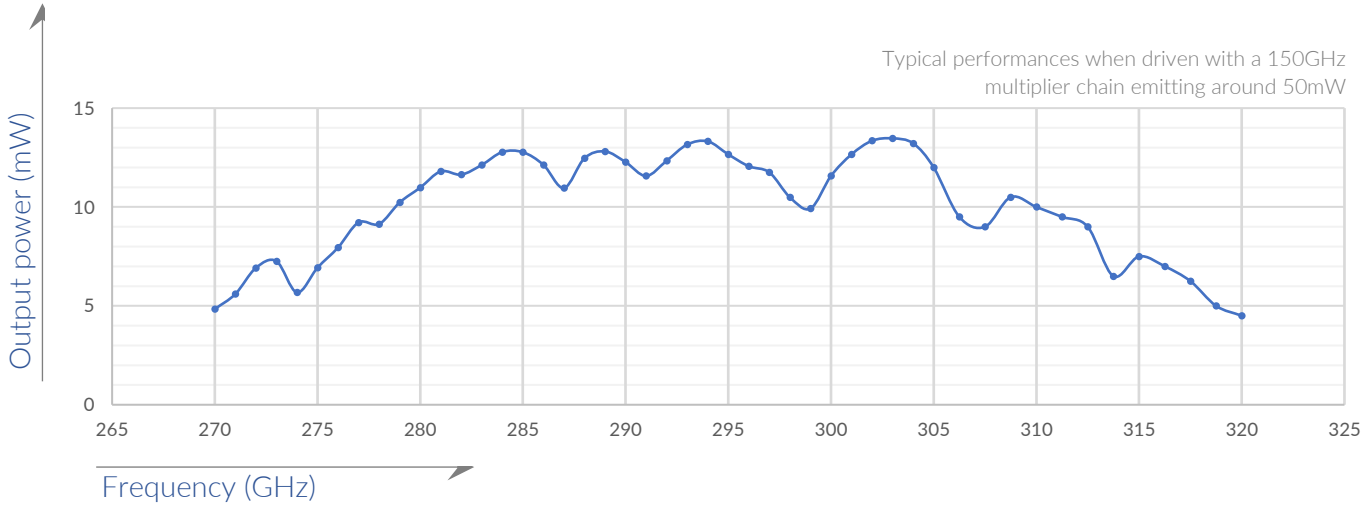
Lytid's range of high power frequency multipliers provide state-of-the-art performances across the sub-terahertz band. These frequency doublers are commonly used to extend the frequency range of microwave and mmW sources towards higher frequencies. The doublers are based on planar GaAs Schottky diode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

300 GHz doubler

Typical performances when driven with a 150GHz multiplier chain emitting around 100mW



Typical performances when driven with a 150GHz multiplier chain emitting around 50mW



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	300GHz doubler
Electrical data	
Bias	3-6V DC typ.
Connector	SMA
Input port data	
Frequency	135 – 160 GHz
Port	WR6.5 (UG387/UM)
Power	<100mW
Output port data	
Frequency	270 – 320 GHz
Port	WR3.4(UG387/UM)
Power	Typ. up to 25mW
Performances	
Conversion Efficiency	25%

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