

Multiplier Product Capability

Millitech offers a complete line of multiplier products for use in the 26 to 700 GHz range.

Millitech is a pioneer in the development of millimeter and submillimeter multipliers. A full line of doublers, triplers and quadruplers is offered, as well as several higher order multipliers spanning the 26 to 700 GHz range. The product line includes both resistive and varactor-based multipliers to cover practically every combination of technical requirements and performance characteristics. Please click on the Product Descriptions and Datasheets button in the Products tab for more information.

Several unique products are offered, such as fixed-tuned, broadband high efficiency multipliers and very high power handling, narrowband multipliers. Maximum output power ranges from 250 mW at the lower frequencies to 0.3 mW at 600 GHz.

These units are highly reliable. They can survive severe shock and vibration, and have operated at temperatures from -269°C (+4°K) to +70°C. High reliability, space-qualified and severe environment use models are available.

Covering the lower frequency ranges are the fullband resistive doublers and triplers, series **MUD** and **MUT**. Series **MUD** are doublers covering full waveguide bands up to 170 GHz, while series **MUT** are full waveguide band triplers capable of operating up to 220 GHz. New additions to the line are the higher frequency modes **MUD-06**, **MUT-08** and **MUT-05**. Offering the convenience of a simple fixed-tuned small package, this line makes swept measurement possible up to 220 GHz. Narrower band units achieving substantially higher output powers are also available.