

## Broadband 78 – 115 GHz Frequency Tripler Type 212A

### Product Description

Unbiasable Broadband Frequency Tripler based on ACST Schottky-Diodes technology.

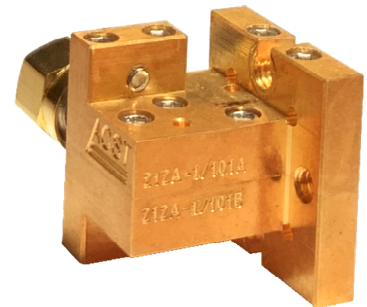


Fig. 1: Optical view of the product

### Application Areas

- Laboratory instrumentation
- MM-wave FMCW-Radar
- Active imaging
- LO Source for MM/SubMM wave heterodyne receivers

### Product Features

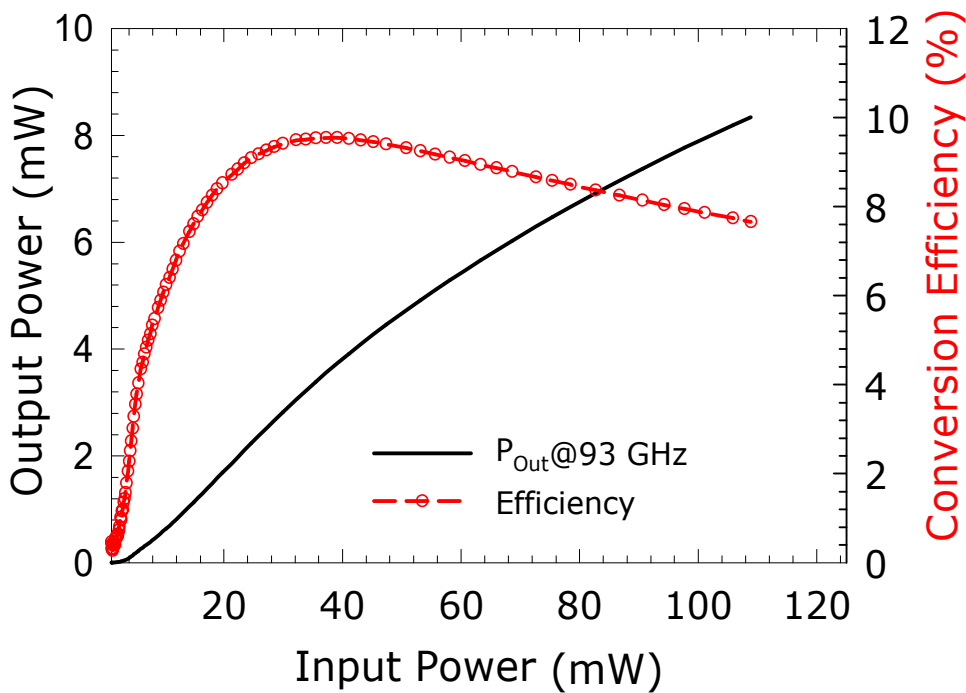
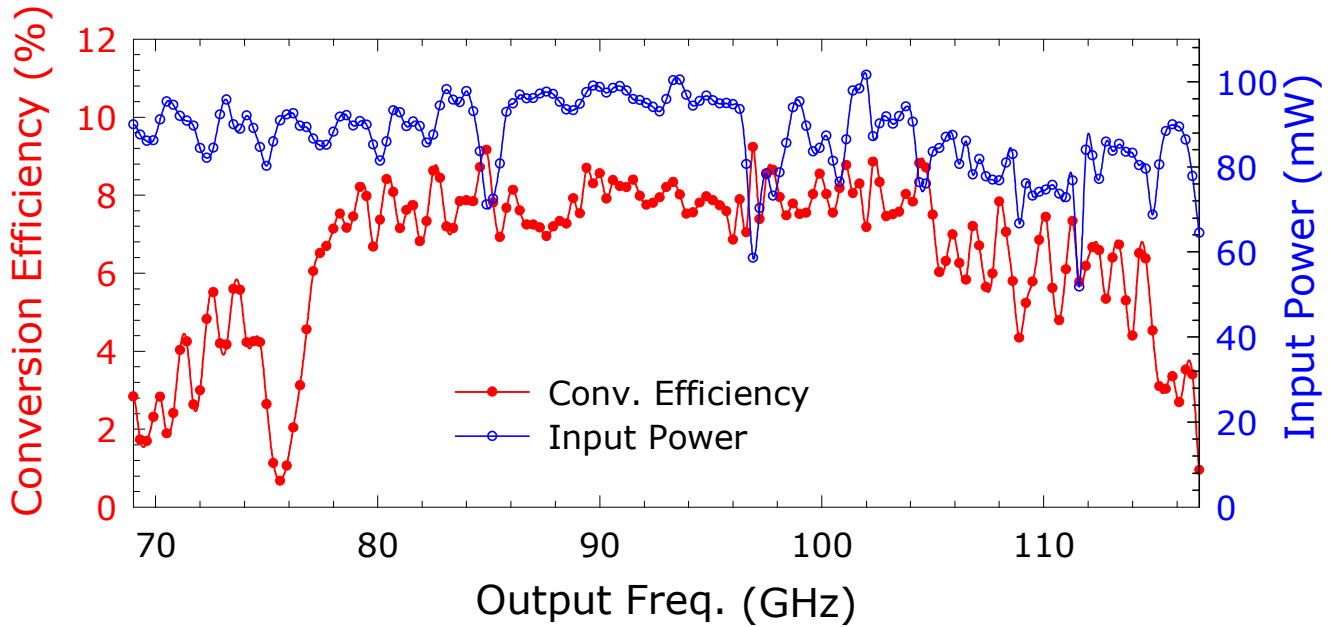
- High efficiency
- Full band
- Flat response

Tab. 1: Technical Specifications

| Technical Specifications   | Minimum | Typ.             | Maximum |
|----------------------------|---------|------------------|---------|
| Input Port (coaxial)       |         | K-Type Connector |         |
| Input Frequency (GHz)      | 26      |                  | 38.33   |
| Input Power (mW)           | 20      |                  | 200     |
| Output Port (UG 387/U-M)   |         | WR-10            |         |
| Output Frequency (GHz)     | 78      |                  | 115     |
| Output Power (mW)          |         |                  | 15      |
| Conversion Efficiency* (%) | 5       | 6.5              | 9       |

\* Lower Efficiency may be expected at input power lower than specified and near the band edges.

Typical Performance



## Product Overview

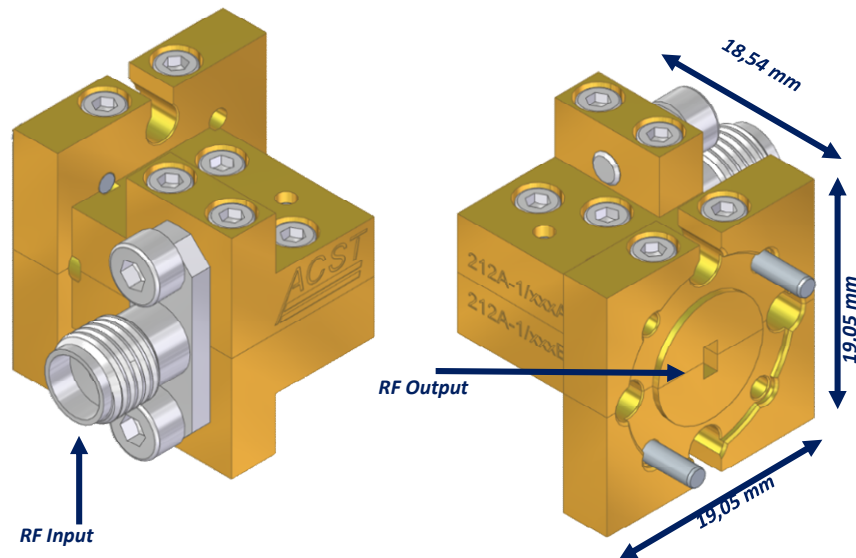


Fig. 2: Overall dimensions

## Notes

- All plotted data represent typical values. The actual data may vary from unit to unit.
- All tests are carried out at a room temperature of 24 °C.

## Caution

- Absolute maximum ratings should not be used under normal operating conditions. Exceeding maximum ratings may lead to permanent failure.
- Any foreign body inserted into the waveguide will cause a loss of performance and may damage the device.

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