

Broadband High-Power 55 – 90 GHz Frequency Doubler Type 216BX

Product Description

Broadband Frequency Doubler based on ACST high-power multiplier technology. No bias required.



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-Power & Efficiency
- Full bandwidth
- Flat response

Tab. 1: Technical Specifications

Technical Specifications	Minimum	Typ.	Maximum
Input Port (Coaxial)		K-Type Connector	
Input Frequency (GHz)	27.50		45
Input Power (mW)	100		1400
Output Port (UG 387/U-M)		WR-12	
Output Frequency (GHz)	55		90
Output Power (mW)			220
Conversion Efficiency* (%)	8	12	14

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

Notes

- All values presented are based on preliminary estimations.
- ACST Dedicated Bias Box included (requires DC voltage input).
- 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.
- Bias Port is extremely ESD sensitive.

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