

Fullband Subharmonic Mixers

General Features

- Frequency coverage: 110 - 500 GHz
- Waveguide full bandwidths up to 500 GHz
- Local Oscillator Frequency = ½ RF
- LO Power +7 to +10 dBm
- Low conversion loss
- IF > 20 GHz

Specifications

Model	RF Frequency (GHz)	LO Frequency (GHz)	Conversion Loss (dB) ⁻¹	IF Range (GHz) ⁻³	RF/LO Waveguide
THZSHM-06	110-170	55-85	10 typical	0.1-20	WR 06/12, UG387/U-M
THZSHM-04	170-260	85-130	10 typical	0.1-20	WR 04/08, UG387/U-M
THZSHM-03	220-330	110-165	12 typical	0.1-40	WR 03/06, UG387/U-M
THZSHM-2.8NB	300-350	160-175	15 typical	0.1-20	WR 2.8/06, UG387/U-M
THZSHM-2.2NB	325-500	162-250	15 typical	0.1-40	WR 2.2/04, UG387/U-M



Figure 1 THZSHM-06 110-170 GHz

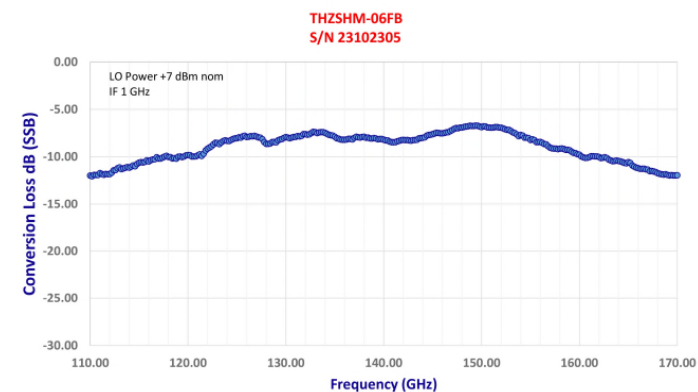


Figure 2 Typical Conversion Loss THZSHM-06

Notes

1. Conversion loss, DSB, with LO optimized @ +10 dBm typical
2. Option: combined mixer / LO units; send request
3. IF bandwidths > 20 with variable LO. (IF extends to 40 GHz with fixed LO, send request)
4. IF connector SMA-F/K-F
5. **How to make a request:** specify Model and RF, IF, LO frequency range, LO power, conversion loss, and email to: sales@vivatechthz.com