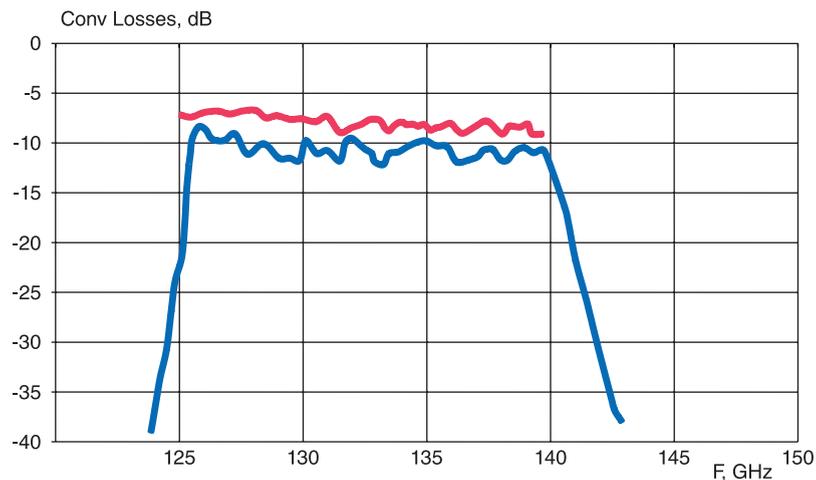
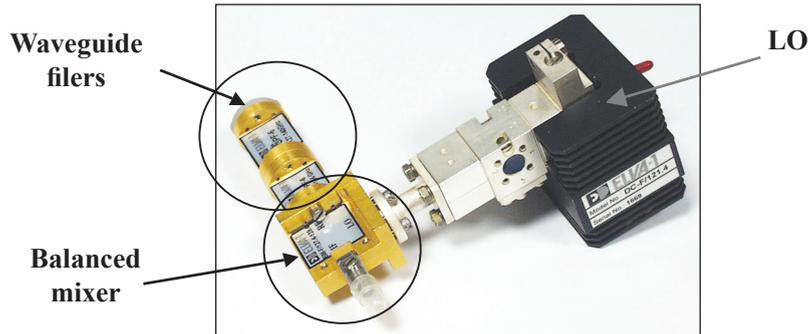


Typical outward view and measured data of a receiver / down converter are presented below:

F-band Downconverter
 LO = 121.4 GHz RF = 127.4–139.4 GHz
 IF = 6...18 GHz (LPF and BPF used)



Conversion Losses of the Downconverter Flo = 121.4 GHz RF = 127.4–139.4 GHz

Red line - without input BPF filter

Blue line - with input BPF filter

How to Order

Specify Model Number **BM-XX/LO/IF/N/A/B**, where

- **XX** — number of waveguide standard (Ex. 10 for WR-10 and 06 for WR-06)
- **LO** — LO frequency (or operating range), **F** — if full band
- **IF** — intermediate frequency range
- **N** — number of operating harmonic, nothing if **N = 1**
- **A** — with built-in power amplifier at output, nothing if without output power amplifier
- **B** — requires bias, nothing if no bias.

Example

BM-10/F/4 — W-band mixer, LO = 75–110 GHz, IF = 4 GHz

BM-06/142/6–18 — D-band mixer, LO = 142 GHz, IF = 6–18 GHz

BM-10/12–18/1/6 — W-band mixer, LO = 12–18 GHz, IF = 1 GHz, harmonic number 6

BM-10/94/0.5–1.5/A — W-band mixer, LO = 94 GHz, IF = 0.5–1.5 GHz, harmonic number 1, with built-in output power amplifier.

Delivery time 6–8 weeks for standard models. Custom designed mixers are delivered within 12 weeks ARO. All ELVA-1 balanced mixers are warranted by the manufacturer for one year after receipt.