



ELVA-1

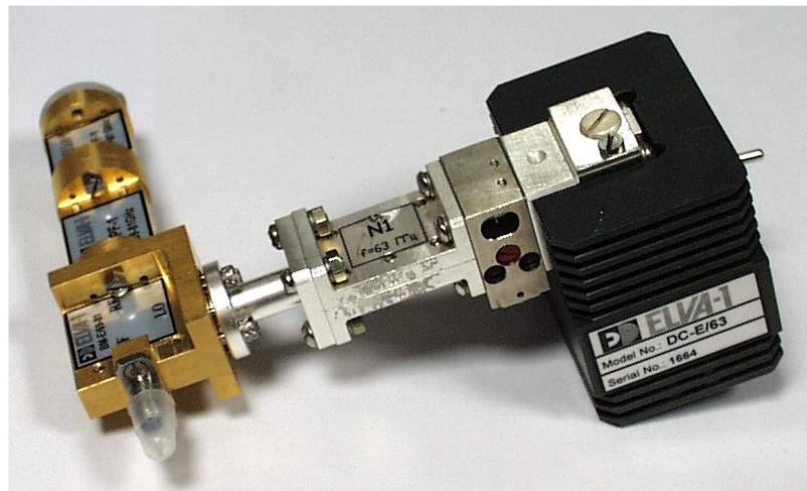
<http://www.elva-1.com>

E-BAND DOWN CONVERTER

Model DC-E/63

Including BAND PASS and LOW PASS filters

Part No 1664



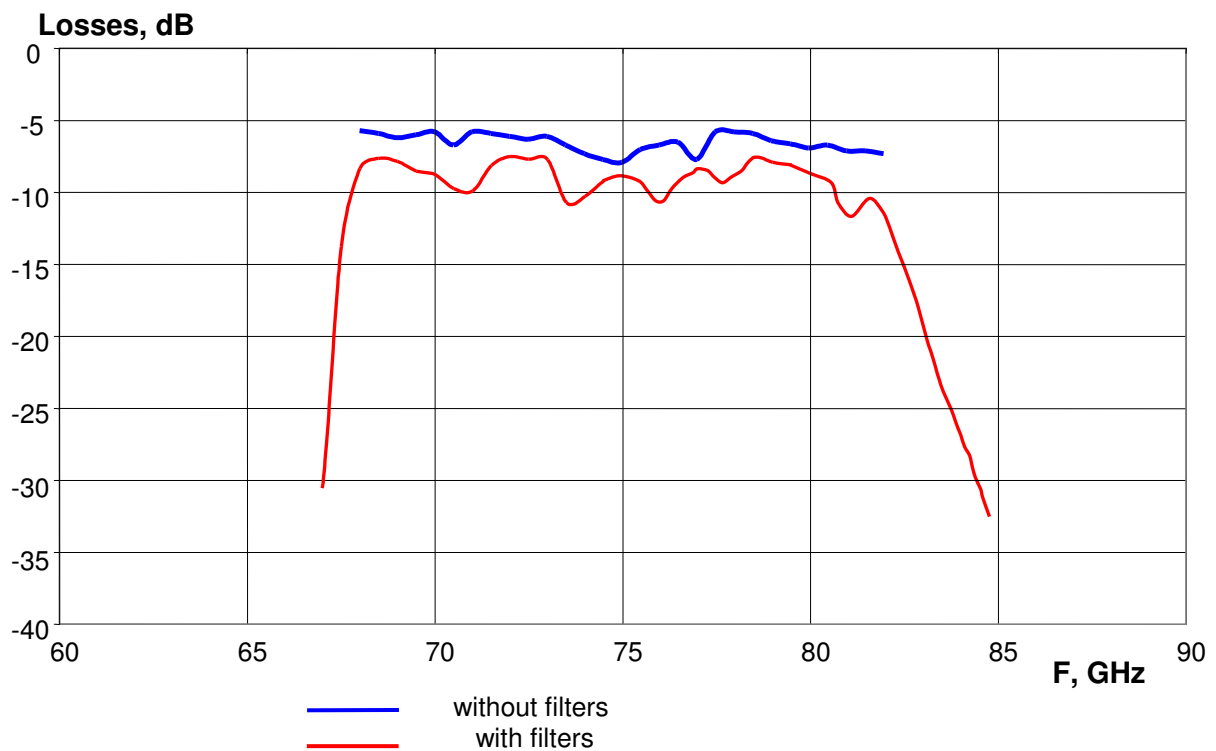
Specification

| | |
|---|---------------|
| Operating RF frequency band: | 69-81GHz |
| LO Frequency: | 63 GHz |
| IF frequency band: | 6-18GHz |
| Noise figure (with band pass and low pass filters) | 12.3 dB (max) |
| Conversion Losses* (without filters): | 6-8.5 dB. |
| Conversion losses (with band pass filter): | 9.5 dB (max) |
| Conversion losses* (with band pass and low pass filters): | 12 dB (max) |

| | |
|--|----------------------------|
| Conversion losses within 45-57 GHz and 108-144GHz frequency ranges (with band pass and low pass filters) | 45 dB min |
| Power supply: | +27(+/-0.5)VDC /200mA(max) |
| Operating Temperature: | +10 to +40 deg. C |
| IF connector: | SMA, female |
| Power supply connector: | SMA, female |
| RF Waveguide, Flange: | WR-12, UG-387/U |

*) Measured data are shown in a figure below.

Conversion Losses of Downconverter
 Flo= 63 GHz, RF=69- 81GHz



Scheme of the Down Converter

