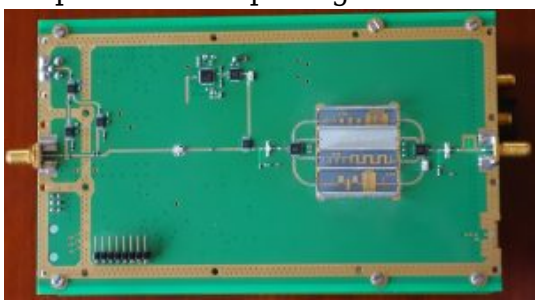
Features:

- Preselector with 4 filters
- High dynamic range
- Low level of noise
- 3U housing
- Remote control

UHF converters are intended for reception, amplification and conversion of working frequencies of input signals from 3.0…12 GHz frequency range to 2.0…2.5 GHz.



RS/DC 3-12 converter is designed as a heterodyne receiver with a preselector. 3.0…12 GHz frequency range is covered by 4 input filters with 2.0-2.5 GHz bandwidth.

The heterodyne system uses a synthetic signal with low phase noise. The converter is controlled either via RS232, or via I2C.

The converter is designed as a board of 3U format with hermetically soldered covers. Such design allows integrating it into any hardware. For external use, the converter is mounted into a special housing.

Technical specifications of RS/DC 3-12

Range of working frequencies of input signals, GHz	**3.0 – 12**
Noise ratio, dB	**Not more than -10**
Dynamic range, dB	**>80**
Levels of power of spurious output signals at output with no input signals and with turned on reference oscillators, dBm	**-120**
Base frequency range, GHz	**2.0 – 2.5**
Number of subranges	**4**
Width of a subrange, GHz	**2.0**
Phase noise of heterodyne at 10 kHz detuning, dB/c Hz	**– 80**

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Maximum ripple of frequency response, dB	**< 6**
Conversion ratio, dB	**0 +/- 3**
VSWR (on all inputs)	**Not more than 2**
Suppression on the frequencies of receiving image channel, dB	**> 40**
Operating temperature range	**From – 20° C to + 50 °C**
External control	**RS232, I2C**

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