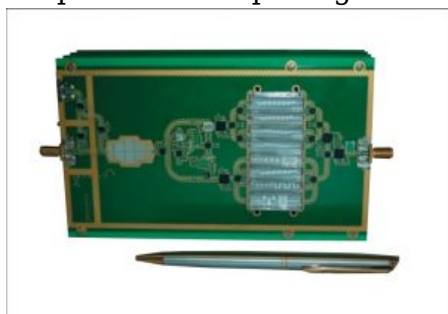


Features:

- **Preselector with 8 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...19 GHz frequency range to 2.0...2.5 GHz.



RS/DC 3-19 converter is designed as a heterodyne receiver with a preselector. 3.0...19 GHz frequency range is covered by 8 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 3-19

Range of working frequencies of input signals, GHz	3.0 - 19
Noise ratio, dB	Not more than -16
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	8
Width of a subrange, GHz	2.0

Phase noise of heterodyne at 10 kHz detuning, dB/c Hz	- 80
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

Technical specifications of RS/DC 3-19