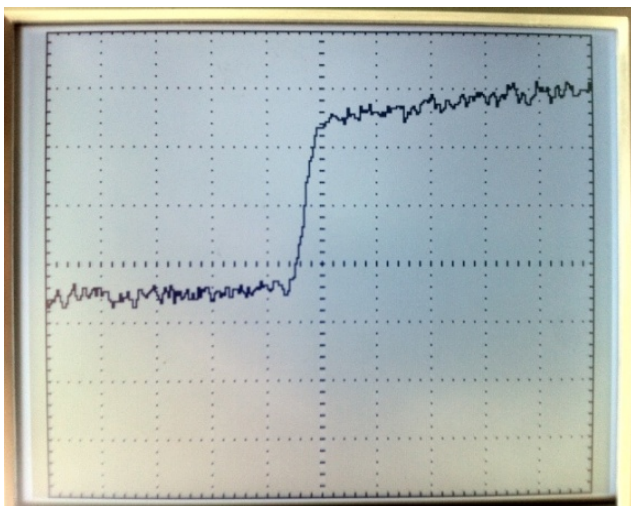


HIGH SENSIVITY COMPARATOR TYPE SAMPLING CONVERTER

Technical specifications:

- Rise time 100 ps
- Sensitivity 15 μV RMS or 7.5 μV RMS
- Sampling frequency 1MHz
- Vertical resolution 8 bit
- Sweep speed 0.2 s (standard mode)
- Timebases 100 ps/div - 1 ns/div



Low noise mode:

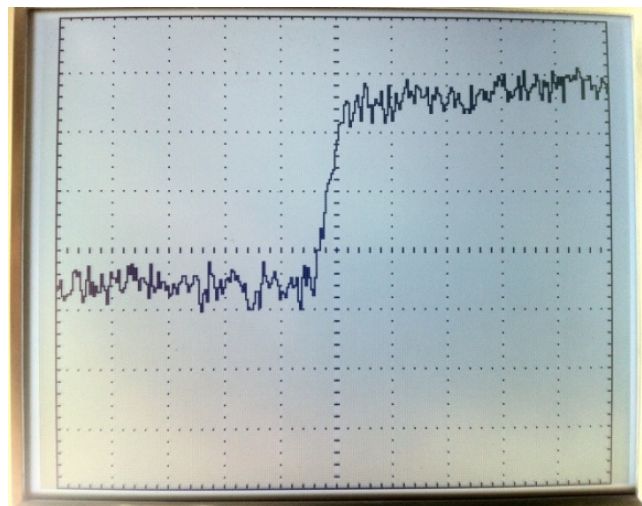
Output signal, RMS=7.5 μV

Measurement time: 5 s

Input: 200 μV

Applications:

- UWB radar
- Sampling scope
- Time domain reflectometer



Standard mode:

Output signal, RMS=15 μV

Measurement time: 0.2 s

Input: 200 μV

Possible UWB radar specifications:

- Frequency range 0.8 – 2.4 GHz
- Dynamic range ± 25 mV
- Sensitivity 15 μV (RMS)
- Sampling frequency 1 MHz
- Number of points for time window 1024
- Sweep speed <0.1 s