

Signal Generator (TTi TG5011)

Exponential Fall

(Single shot in burst mode)

$$V_{\text{out}} = 30 - 980 \text{ mV}$$

$$\text{Impedance}_{\text{out}} = 1050 \Omega$$

$$\text{Rise time} \approx 10 \text{ ns O}(0.1 \text{ GHz})$$

$$\text{Fall time} \approx 500 - 1000 \text{ ns O}(1 \text{ MHz})$$

USB B
PySerial

BNC
(1050 Ω)

BNC (50 Ω)
male to male

Feedthrough
Terminator (50 Ω)

USB B
PySerial

USB B
PySerial

python 3.6

Centos 8 machine

CosmicWatch

Amplification

Peak Detector

1k Ω

ADC
(Arduino Nano)

BNC
(50 Ω)

USB B
PySerial

BNC
(1 M Ω)

Oscilloscope

