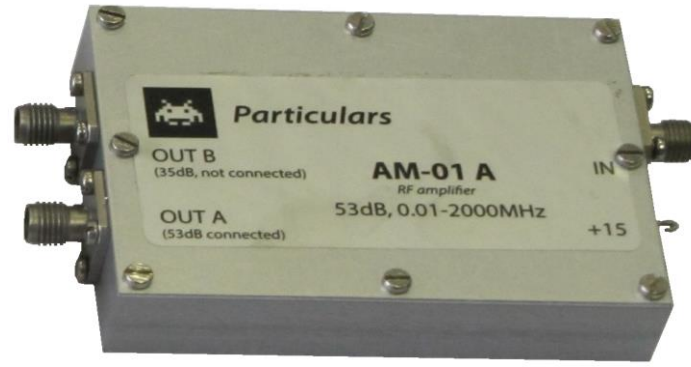


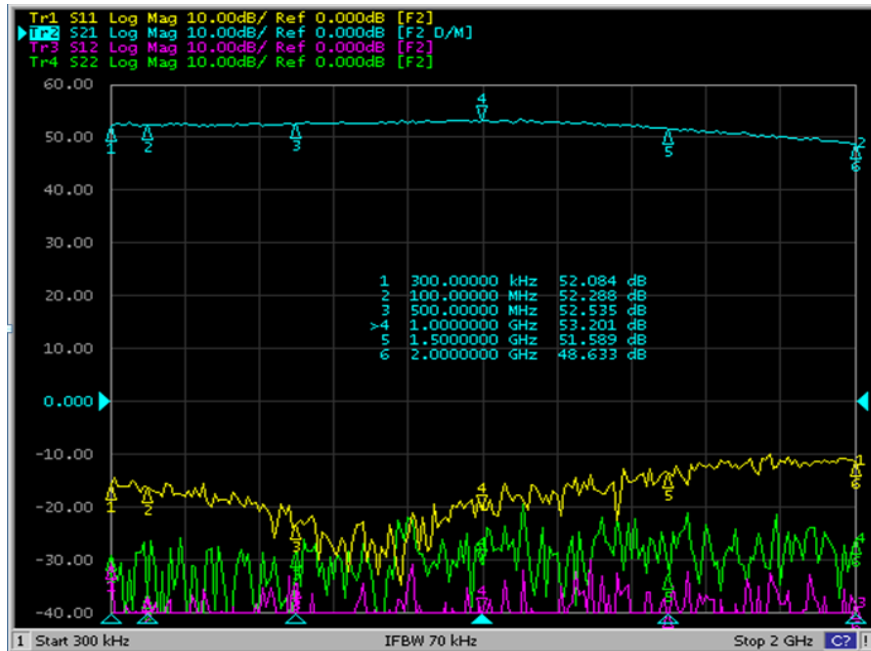
Amplifier AM-01 A

bias voltage	6-15 V
amplification	35 dB, 53 dB
frequency range	0.01-2000 MHz
input impedance	~50 Ω
output impedance	~50 Ω
Physical measures [cm] (LxWxD)	7x5x1.5



Response function of the amplifier - S parameters

bias voltage 15 V



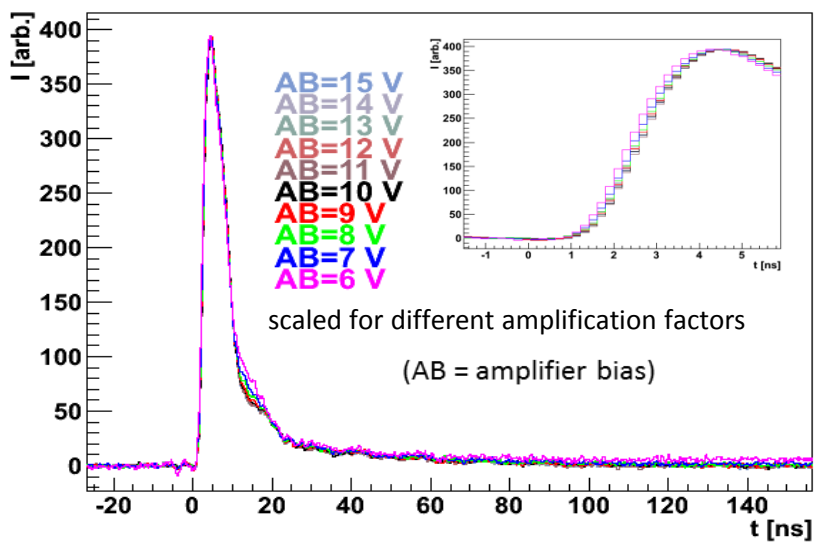
$$\begin{pmatrix} b_1 \\ b_2 \end{pmatrix} = \begin{pmatrix} S_{11} & S_{12} \\ S_{21} & S_{22} \end{pmatrix} \begin{pmatrix} a_1 \\ a_2 \end{pmatrix}$$

Gain of the amplifier

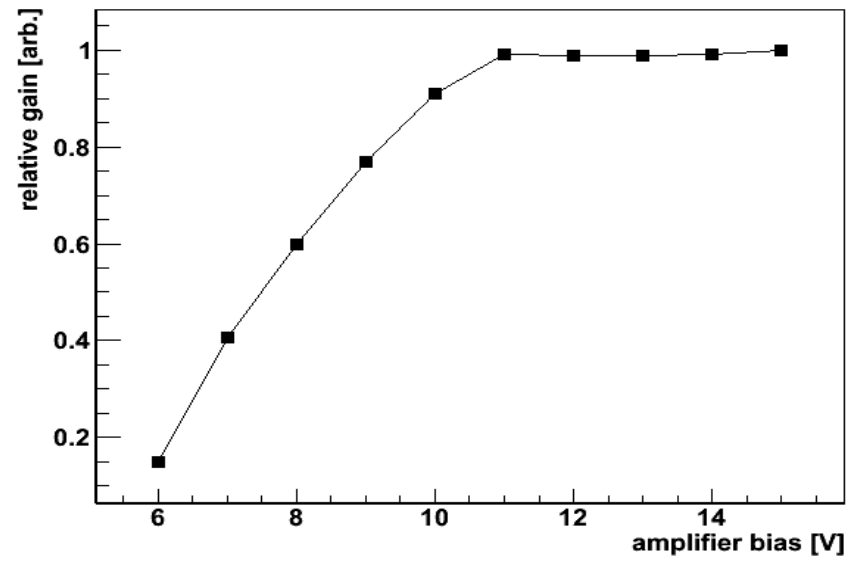
- a1 - input signal
- b1 - reflected signal
- b2 - output signal

Response (IR - TCT signal in 300 μm fully depleted silicon p-n sample)

Transient signals



Gain of the amplifier



Comparison with other vednors

