

# Bias-T ( BT-01 )

max applied voltage	1-2kV (depends on version)	
leakage	<500 nA @ 1 kV	
frequency range	low end	<100 kHz
	hi end	>2000 MHz
input impedance	~50 Ω	
output impedance	~50 Ω	
Physical measures [cm]	(LxWxD)	7x5x1.5



## Response function of the amplifier - S parameters



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

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

## Comparison with other vendors (IR - TCT signal in 300 μm fully depleted silicon p-n sample)

