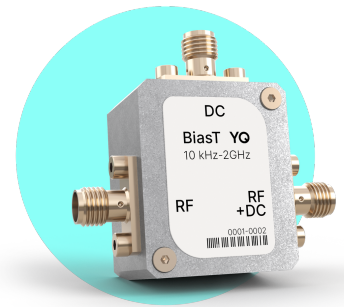


## Key Features - Flux BiasT

- Main application: Flux-biasing of superconducting qubits
- Highly linear and first-order transfer function
- 10 kHz to 2 GHz frequency range for RF
- Low-pass filter for DC with 10 Hz cutoff and 60 dB of suppression up to 1 GHz
- Precision 1 k $\Omega$ \* ( $\pm 5$  ppm/ $^{\circ}$ C) bias resistor for DC path
- \*Contact YQuantum for different bias resistance values
- Low insertion- and high return-loss



Flux BiasT Aluminum casing  
Mounting holes on backside

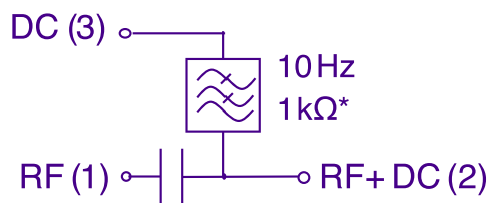
## Absolute Maximum Ratings

DC input voltage	+/-20 V
RF input power	+32 dBm
Operating temperature	-55 to 85 $^{\circ}$ C

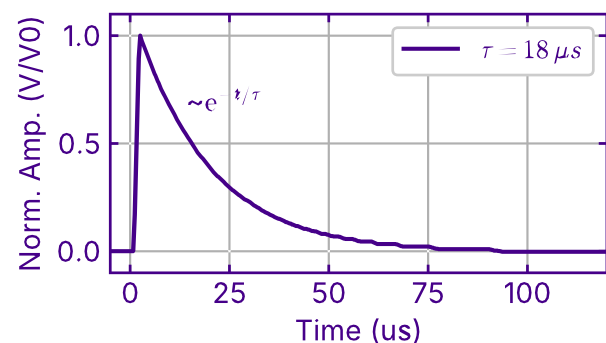
## Typical Performance

RF frequency	10 kHz – 2 GHz
Insertion loss	< 1.0 dB
Return loss	> 16.0 dB

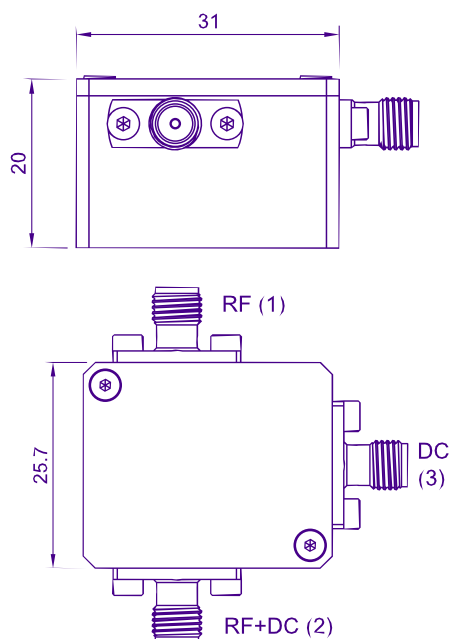
## Circuit Schematic



## Step Response into 50 $\Omega$



## Drawing Casing [mm/in]



## Scattering-Parameters

