Delft Circuits
Hardware for quantum engineers

Flux bias line

Cri/oFlex® Product sheet

Used to

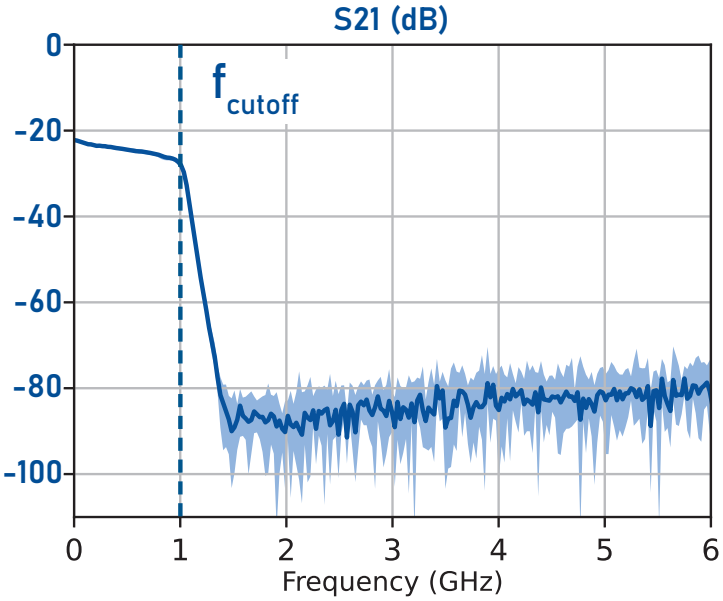
- Tune the energy gap between computational states

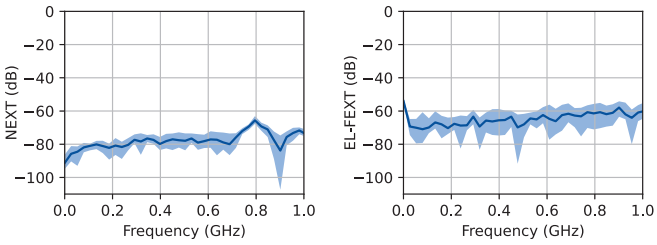
Optimized for

- Low frequency bias signals
- Minimising active & passive heating

Key features

- 8 transmon qubit flux lines
- 1 GHz low-pass filter
- 20 dB attenuation
- NbTi Superconducting lines
- Integrated infrared filter
- Provided with vacuum feedthrough

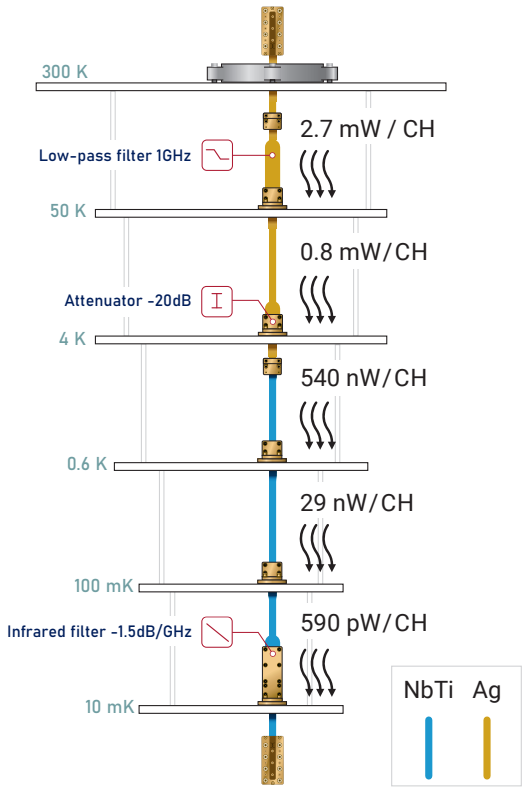




General specifications	
Storage temperature	0 K to 320 K
Operating temperature	0 K to 400 K (gradient)
Applications	Qubit flux for super-conducting qubits or similar
Number of channels	8
Transmission type	Stripline
Connector type	SMA female / SMP
Primary flex materials	Polyimide, NbTi, Silver (Ag)
Minimum bending radius	5 mm
Required length for 180° longitudinal rotation	10 mm
Vacuum feedthrough connection	KF25/40, ISO 100 side and top loader ports
Vacuum feedthrough leak rate	< 10-9 mbar L/s

Cable overview

Cable layout & passive heatload per channel



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