

Source · p1

Receiver · p2

300 K

50 K

4 K

Still

800 mK

Cold plate

100 mK

Mixing chamber

20 mK

Coax anchored at each stage · 50 ns per line

20 dB

20 dB

20 dB

IR filter
1 dB

Circulator · 0.5 dB per pass

1

2

3

Isolator
0.5 dB

Isolator
0.5 dB

Resonator chip
7 GHz · one port

+20 dB

HEMT
+40 dB

1 dB

Output coax