

RF Characteristics

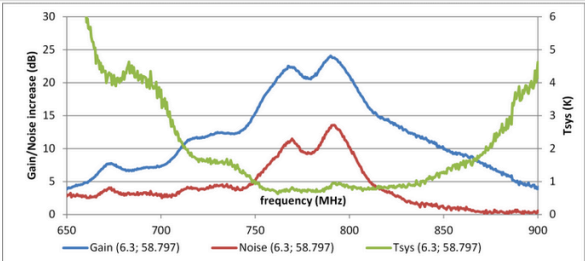
Monday, June 02, 2014 6:41 PM

http://admxdatastore.npl.washington.edu/mediawiki/index.php/Amplifiers_SQUID

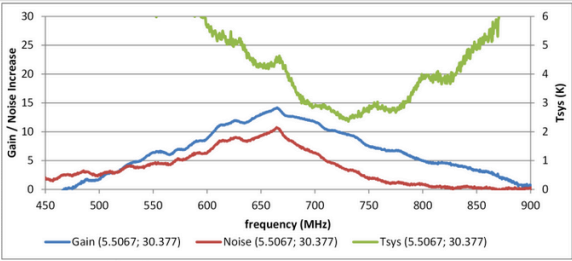
Typical Performance

A note on Tsys: Tsys was calculated from S/N improvement, assuming a 10K Tsys for the amplifier chain without the MSA.

There are two local extrema for gain and noise performance, different by about 1/2 phi0 in flux bias. This data shows the higher frequency, higher gain, lower noise parameters.



Typical Gain, Noise and Tsys at 85mK
I bias= 6.3uA, flux bias current=58.8uA (flux bias current will have variable offset on each cooldown)
There



Flux bias offset by 1/2 phi0.
Device has lower gain and higher noise.
Very little data was taken around this bias point.