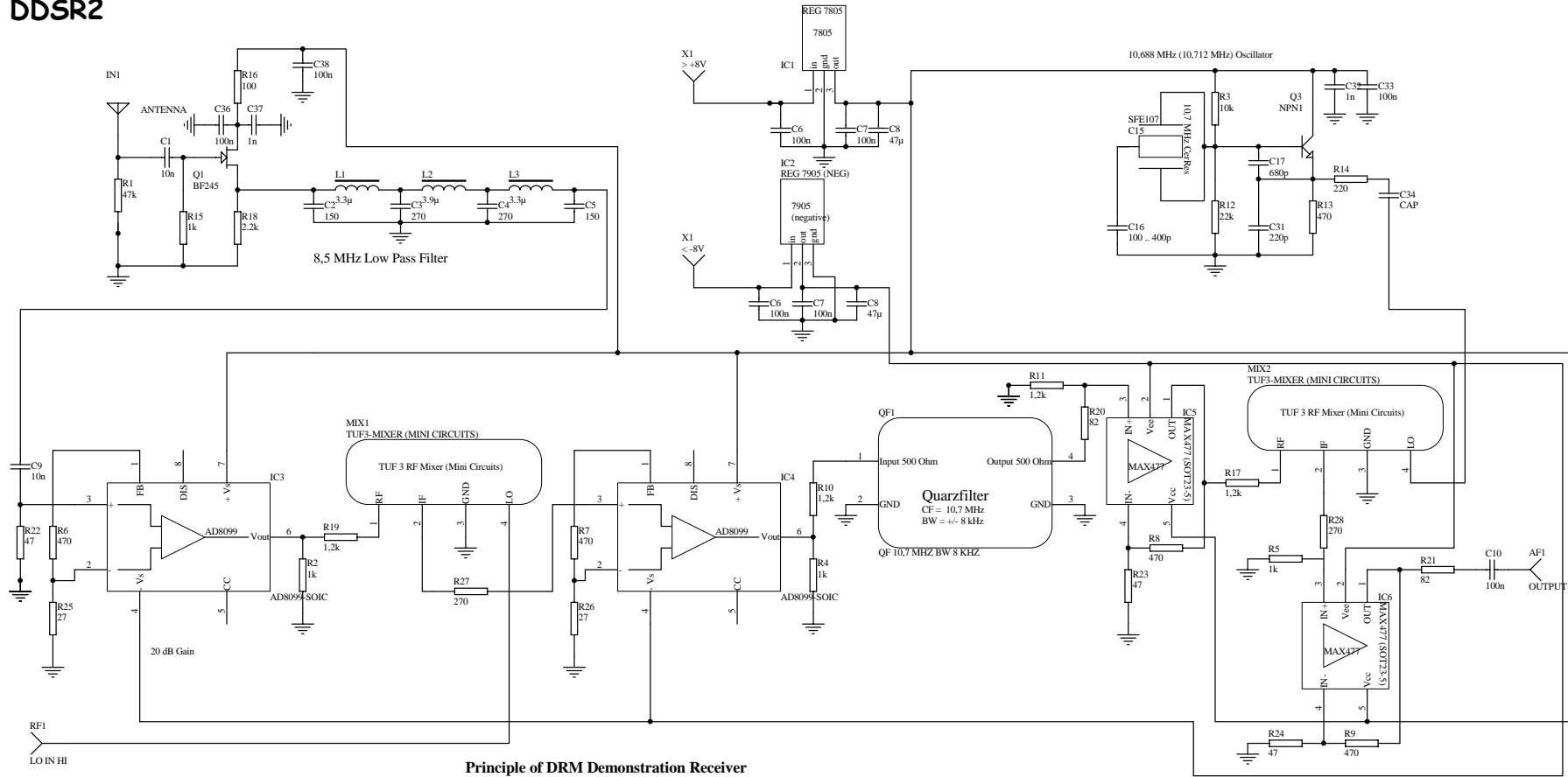


# DDSR2

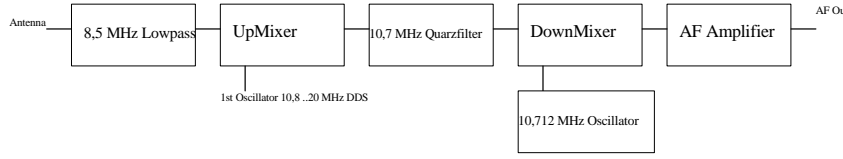


Principle of DRM Demonstration Receiver

DRM Demonstration Shortwave Receiver (DDSR) V2

Christoph Petermann DF9CY  
Status of 16 Feb 2005

Range 30 kHz .. 20 MHz  
External oscillator required 10,8 .. 20 MHz  
Upmixing to 1st IF 10,7 MHz with 10 kHz bandwidth  
Downmixing to 12 kHz out center frequency



Crystal frequency:  
If 10,7 MHz filter with +/-15 kHz is used, run the oscillator above 10,7 MHz of avoid reception of signal. For 12 kHz center IF out following frequency is needed:  
10700 kHz  
+ 12 kHz  
-----  
=10712 kHz

DRM Demonstration Shortwave Receiver  
DDSR2  
16 February 2005