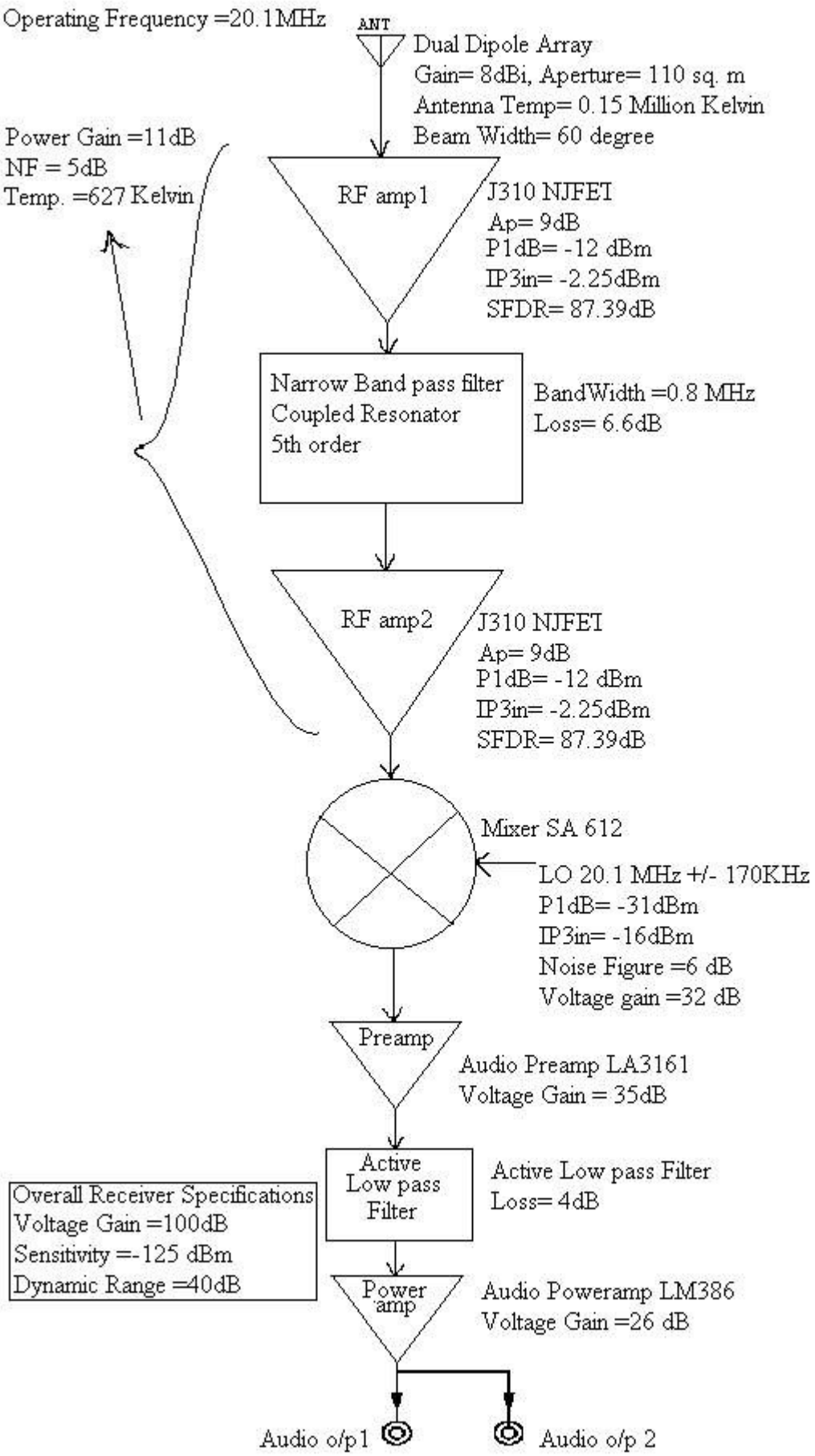
Operating Frequency =20.1MHz
ANT
Dual Dipole Array
Gain= 8dBi, Aperture= 110 sq. m
Antenna Temp= 0.15 Million Kelvin
Beam Width= 60 degree
Power Gain =11dB
NF = 5dB
Temp. =627 Kelvin
RF amp1
J310 NJFET
Ap= 9dB
P1dB= -12 dBm
IP3in= -2.25dBm
SFDR= 87.39dB
Narrow Band pass filter
Coupled Resonator
5th order
BandWidth =0.8 MHz
Loss= 6.6dB
RF amp2
J310 NJFET
Ap= 9dB
P1dB= -12 dBm
IP3in= -2.25dBm
SFDR= 87.39dB
Mixer SA 612
LO 20.1 MHz +/- 170KHz
P1dB= -31dBm
IP3in= -16dBm
Noise Figure =6 dB
Voltage gain =32 dB
Preamp
Audio Preamp LA3161
Voltage Gain = 35dB
Active
Low pass
Filter
Active Low pass Filter
Loss= 4dB
Overall Receiver Specifications
Voltage Gain =100dB
Sensitivity =-125 dBm
Dynamic Range =40dB
Power
amp
Audio Poweramp LM386
Voltage Gain =26 dB
Audio o/p1
Audio o/p 2