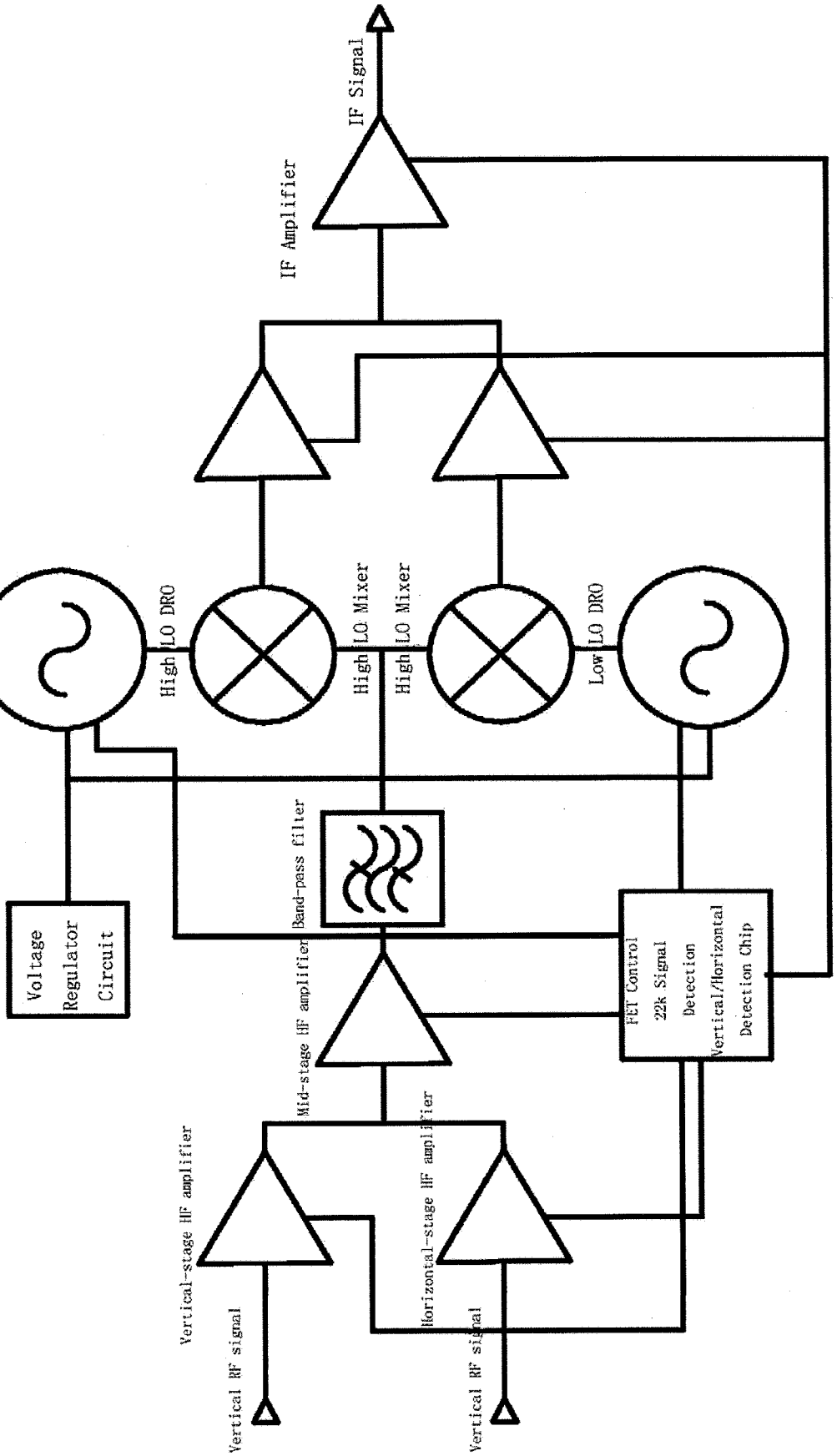

IF Signal
IF Amplifier
High LO DRO
High LO Mixer
High LO Mixer
Low LO DRO
Band-pass filter
Voltage Regulator Circuit
Mid-stage HF amplifier
FET Control 22k Signal Detection Vertical/Horizontal Detection Chip
Vertical-stage HF amplifier
Horizontal-stage HF amplifier
Vertical RF signal
Vertical RF signal

Figure 1

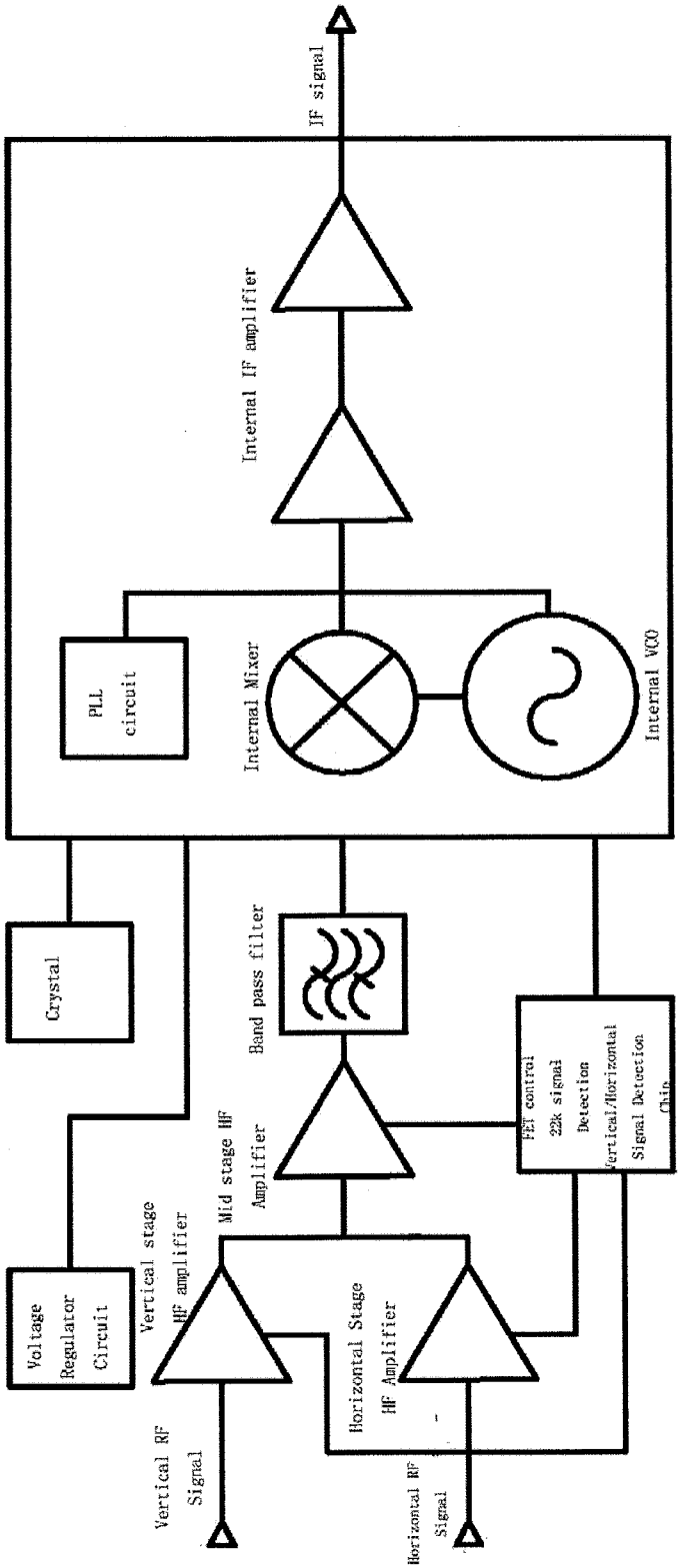

IF signal
Chip integrated PLL and IF amplifier
Internal IF amplifier
PLL circuit
Internal Mixer
Internal VCO
Crystal
Band pass filter
Mid stage HF Amplifier
FET control 22k signal Detection Vertical/Horizontal Signal Detection Chip
Voltage Regulator Circuit
Vertical stage HF amplifier
Horizontal Stage HF Amplifier
Vertical RF Signal
Horizontal RF Signal

Figure 2

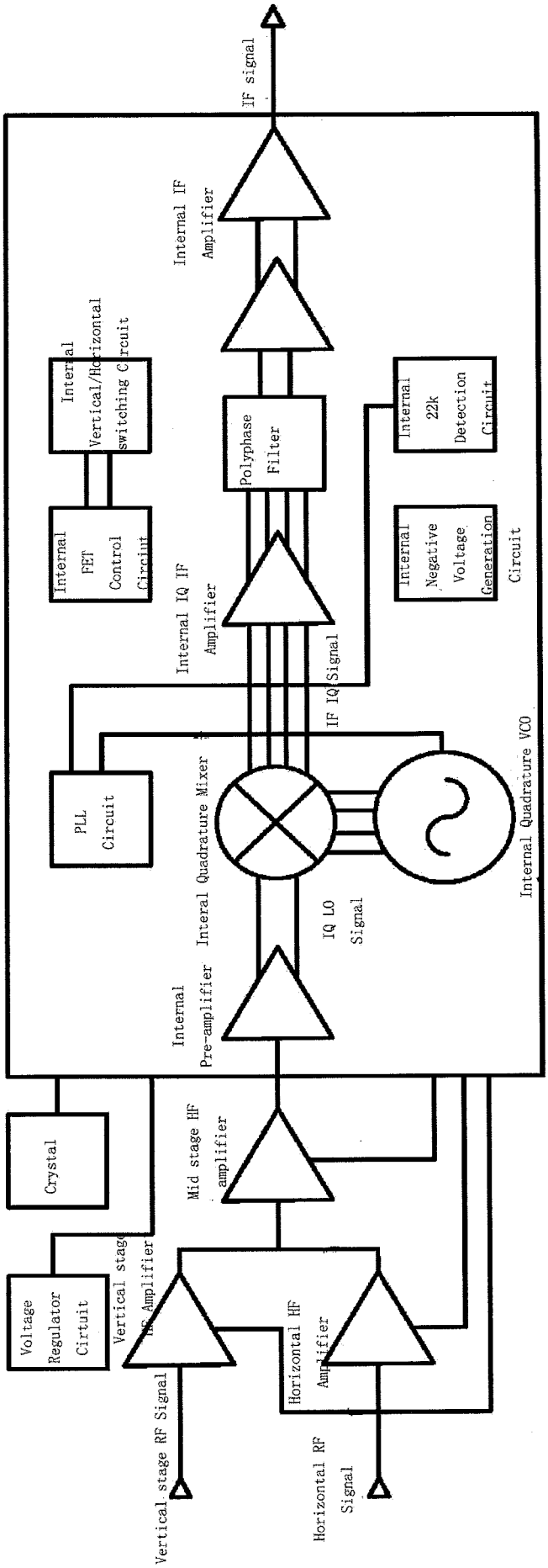

IF signal
Internal IF Amplifier
Internal Vertical/Horizontal switching Circuit
Polyphase Filter
Internal 22k Detection Circuit
Internal FET Control Circuit
Internal Negative Voltage Generation Circuit
Internal IQ IF Amplifier
IF IQ Signal
PLL Circuit
Internal Quadrature Mixer
Internal Quadrature VCO
IQ LO Signal
Internal Pre-amplifier
Crystal
Mid stage HF amplifier
Voltage Regulator Cirtuit
Vertical stage RF Amplifier
Horizontal HF Amplifier
Vertical stage RF Signal
Horizontal RF Signal

Figure 3

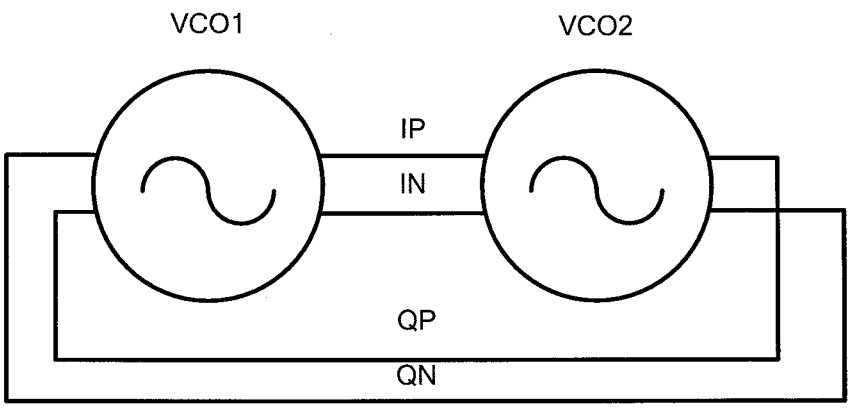


Figure 4

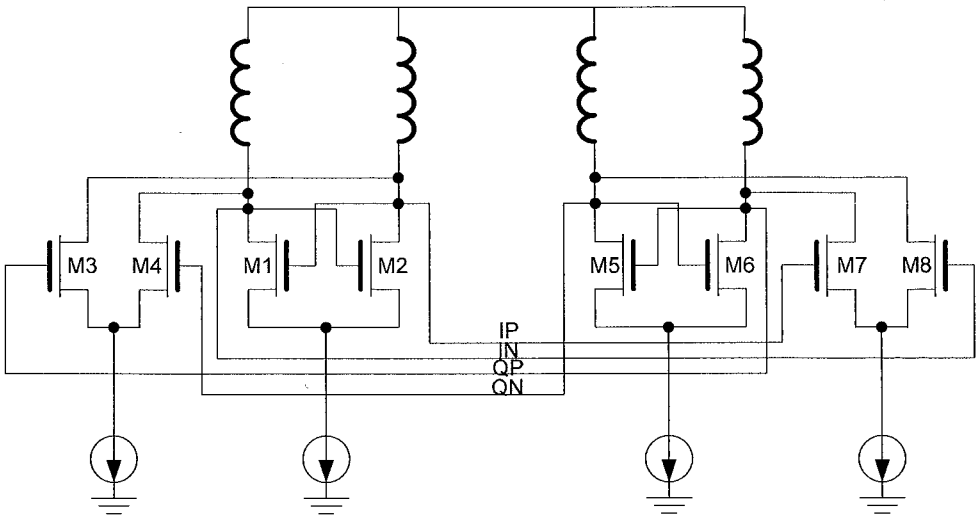


Figure 5

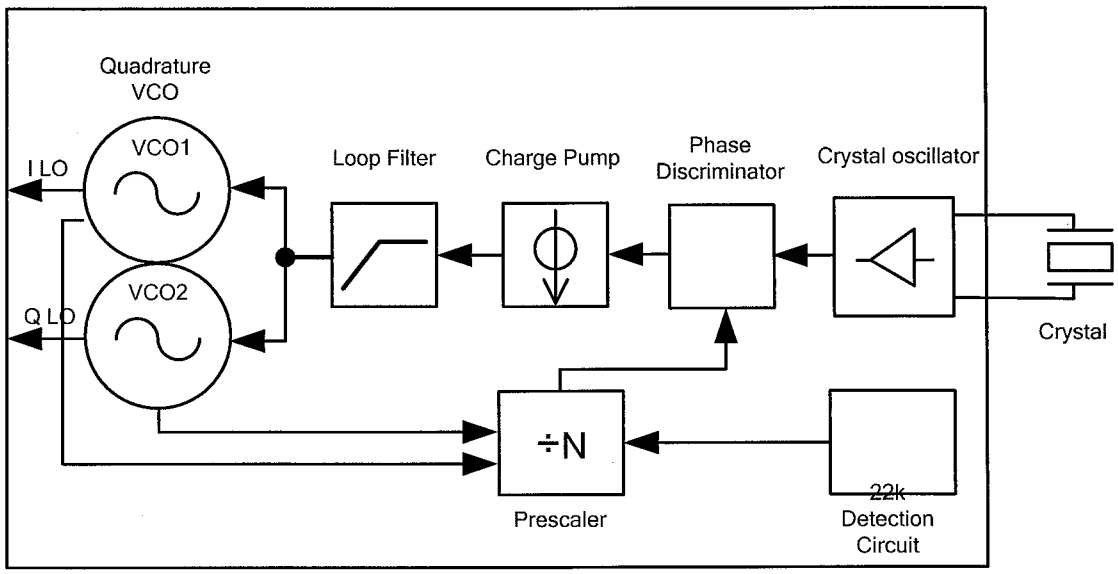


Figure 6

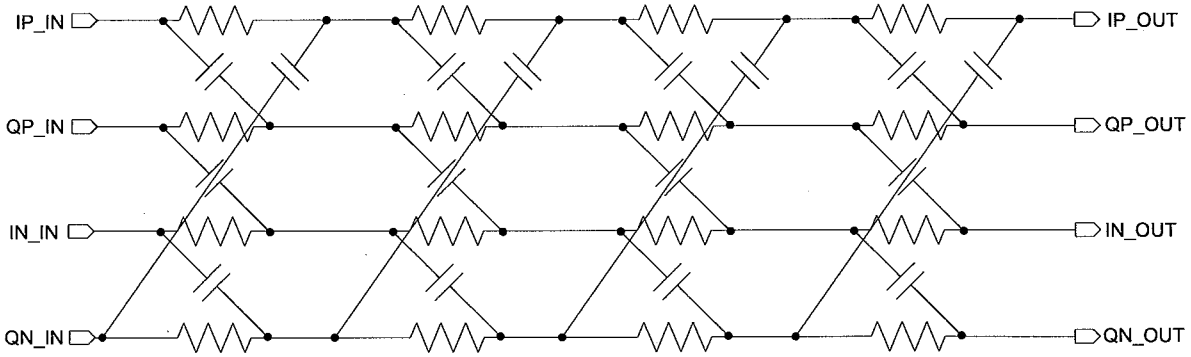


Figure 7