

Homodyne Receiver

This super-block compresses the function of the following blocks:

- Local Oscillator;
- Balanced Beamsplitter;
- Photodiode;
- Subtractor;
- Amplifier;
- Discretizer;
- Delayer
- Bit Decider;

This compression allows for a cleaner code.

Input Parameters

- LocalOscillatorOpticalPower
- LocalOscillatorOpticalPower_dBm
- LocalOscillatorPhase
- TransferMatrix
- Responsivity
- Amplification
- NoiseAmplitude
- SamplingRate
- Delay
- ReferenceValue

Functional Description

The input signal is evaluated and a binary string is generated from this evaluation.

Input Signals

Number: 1

Type: Sequence of impulses modulated by the filter (OpticalSignal)

Output Signals

Number: 1

Type: Binary String (Binary)