

Pulse Shaper

This block applies a time domain, finite impulse response filter to the signal. The filter's transfer function is defined by the vector *impulseResponse*. It allows for passive filter mode operation via a boolean check.

Input Parameters

- filterType
- impulseResponseTimeLength
- rollOffFactor
- usePassiveFilterMode

Functional Description

Input Signals

Number: 1

Type: Sequence of Dirac Delta functions (ContinuousTimeDiscreteAmplitude)

Output Signals

Number: 1

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

Suggestions for future improvement

Introduce other types of filters.