

# Pulse Shaper

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This blocks 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 (ContinuousTimeContiousAmplitude)

## Suggestions for future improvement

Introduce other types of filters.