Beam Splitter

Input Parameters

- setTransferMatrix

For simplicity, the input of the transfer Matrix is in the form of a 4x1 array, with the following relation between the array, A, and matrix, M, elements:

$$A = \{ \{ \alpha,\ \beta,\ \gamma,\ \delta \} \} \Rightarrow M = \begin{bmatrix} \alpha & \beta \\ \gamma & \delta \end{bmatrix} \tag{1}$$

Functional Description

This block accepts two complex signals and outputs two complex signals built from a mixture of the two inputs according to a pre-determined and user defined transfer matrix.

Input Signals

Number: 2
Type: Complex signal (ContinuousTimeContiousAmplitude)

Output Signals

Number: 2
Type: Complex signal (ContinuousTimeContiousAmplitude)