

VisualizersLibrary

CLSID "{F11D0C25-3C7D-11D4-93F0-0050DAB7C5D6}"

Optical Spectrum Analyzer
Optical Time Domain Visualizer
Oscilloscope Visualizer
RF Spectrum Analyzer
Eye Diagram Analyzer
BER Analyzer
Optical Power Meter
WDM Analyzer
Dual Port WDM Analyzer
Electrical Power Meter Visualizer
Electrical Constellation Visualizer
Electrical Carrier Analyzer
Dual Port Electrical Carrier Analyzer
Polarization Analyzer
Polarization Meter
Binary Sequence Visualizer
M-ary Sequence Visualizer
Dual Port Binary Sequence Visualizer
Dual Port M-ary Sequence Visualizer
Dual Port Optical Time Domain Visualizer
Dual Port Optical Spectrum Analyzer
Dual Port Oscilloscope Visualizer
Dual Port RF Spectrum Analyzer
View Signal Visualizer
Directly Detected Eye Analyzer Visualizer
Cpp CoSimulation Visualizer
WDM FBG Sensor Interrogator
Electrical Eye Viewer
Phi-OTDR Interrogator

DefaultComponentLibrary

CLSID "{6DA31CEE-058F-11D4-93BD-0050DAB7C5D6}"

CW Laser
Ideal Single Mode Laser
Laser Measured
LED
White Light Source
Pseudo Random Bit Sequence Generator
User Defined Bit Sequence Generator
Optical Gaussian Pulse Generator
NRZ Pulse Generator
Gaussian Pulse Generator
Hyperbolic Secant Pulse Generator
Sine Generator
Triangle Pulse Generator
Saw-Up Pulse Generator
Saw-Down Pulse Generator

Impulse Generator
Raised Cosine Pulse Generator
Sine Pulse Generator
Measured Pulse
Measured Pulse Sequence
RZ Pulse Generator
Optical Sech Pulse Generator
Optical Impulse Generator
Measured Optical Pulse
Measured Optical Pulse Sequence
MZ Modulator Analytical
EA Modulator Analytical
Amplitude Modulator
Phase Modulator
Frequency Modulator
Dual Drive MZ Absorption Phase
EA Modulator Measured
Pump Laser
Single Drive MZ Modulator Absorption Phase
Dual Port Dual Drive MZ Modulator Absorption Phase
Bias Generator
Pump Laser Array
CW Laser Array
CW Laser Measured
Directly Modulated Laser Measured
Dual Port MZ Modulator Measured
CW Laser Array ES
TRC Measurement Data
VCSEL Laser
Controlled Pump Laser
Fabry Perot Laser
VCSEL Laser Measured
DFB Laser
Empirical Laser Measured
Spectral Light Source
Compliance Test Patterns

WDMultiplexersLibrary

CLSID "{1747A24E-52A0-11D4-9403-0050DAB7C5D6}"

WDM Add
WDM Demux 1x2
WDM Demux 1x4
WDM Demux 1x8
WDM Demux
WDM Drop
WDM Mux 2x1
WDM Mux 4x1
WDM Mux 8x1
WDM Mux
Ideal Mux
Ideal Demux
WDM Add and Drop
WDM Demux ES

WDM Mux ES
AWG NxN
AWG NxN Bidirectional

OpticalFibersLibrary

CLSID "{416EC6F1-529F-11D4-9403-0050DAB7C5D6}"

Nonlinear Dispersive Fiber
Optical Fiber
Optical Fiber CWDM
Bidirectional Optical Fiber
Lossy Fiber
Nonlinear Optical Fiber
Phi-OTDR
GN Model
MCF XT-Bending Radius
MCF XT-Core Pitch
Multicore Fiber
OTDR

AmplifiersComponentLibrary

CLSID "{255EDC8F-37E4-11D4-93EC-0050DAB7C5D6}"

Er Doped Fiber
EDFA
EDFA Black Box
Optical Amplifier
Optical Amplifier Measured
Electrical Amplifier
Er Doped Fiber Dynamic
Er Doped Fiber Dynamic Analytical
Transimpedance Amplifier
Limiting Amplifier
Er Yb Codoped Fiber
AGC Amplifier
Yb Doped Fiber
Yb Doped Fiber Dynamic
Er Yb Codoped Fiber Dynamic
Tm Doped Fiber
Optical Fiber Amplifier
Er Doped Multimode Fiber (OS13)
Yb Doped Multimode Fiber (OS13)
Pr Doped Fiber
Erbium Doped MM Fiber
Ytterbium Doped MM Fiber
Tm Doped Fiber Dynamic
Ho Doped Fiber
Ho Doped Fiber Dynamic

RamanAmplifiersComponentLibrary

CLSID "{10A4FE75-E0B3-11d4-948D-0050DAB7C5D6}"

Raman Amplifier Average Power Model

Raman Amplifier Dynamic Model
Raman Amplifier Component
Raman Amplifier Steady State Model

FiltersComponentLibrary

CLSID "{161B94D1-3BA4-11D4-93EE-0050DAB7C5D6}"

Optical IIR Filter
Measured Optical Filter
Rectangle Optical Filter
Trapezoidal Optical Filter
Gaussian Optical Filter
Butterworth Optical Filter
Bessel Optical Filter
Fabry Perot Optical Filter
Acousto Optical Filter
Mach Zehnder Interferometer
Inverted Optical IIR Filter
Inverted Rectangle Optical Filter
Inverted Trapezoidal Optical Filter
Inverted Gaussian Optical Filter
Inverted Butterworth Optical Filter
Inverted Bessel Optical Filter
IIR Filter
Low Pass Rectangle Filter
Low Pass Gaussian Filter
Low Pass Butterworth Filter
Low Pass Bessel Filter
Low Pass Chebyshev Filter
Low Pass RC Filter
Low Pass Raised Cosine Filter
Low Pass Cosine Roll Off Filter
Low Pass Squared Cosine Roll Off Filter
Band Pass IIR Filter
Measured Filter
Band Pass Rectangle Filter
Band Pass Gaussian Filter
Band Pass Butterworth Filter
Band Pass Bessel Filter
Band Pass Chebyshev Filter
Band Pass RC Filter
Band Pass Raised Cosine Filter
Band Pass Cosine Roll Off Filter
Band Pass Squared Cosine Roll Off Filter
Fiber Bragg Grating
Uniform Fiber Bragg Grating
Optical Filter Analyzer
Electrical Filter Analyzer
S Parameters Measured Filter
Gain Flattening Filter
Delay Interferometer
Periodic Optical Filter
Digital Filter
Optical Digital Filter

Inverted Optical Digital Filter
Low Pass Inverse Gauss Filter
Low Pass Inverse Sinc Filter
Raised Cosine Optical Filter
Inverse Gaussian Optical Filter
Inverse Sinc Optical Filter
Band Pass Inverse Gaussian Filter
Band Pass Inverse Sinc Filter
Uniform FBG Sensor
Measured Optical Sensor
FBG Sensor

DispersionCompensation

CLSID "{DA6309D8-71BD-441f-BC04-A3908C37686C}"

Ideal Dispersion Compensation FBG
Measured Group Delay Optical Filter

PassivesComponentLibrary

CLSID "{F11D0C07-3C7D-11D4-93F0-0050DAB7C5D6}"

Optical Attenuator
X Coupler
Power Splitter 1x2
Power Combiner 2x1
Phase Shift
Time Delay
Linear Polarizer
Circular Polarizer
Polarization Attenuator
Polarization Combiner
Polarization Controller
Polarization Rotator
Polarization Splitter
Power Splitter 1x4
Power Splitter 1x8
Power Splitter
Power Combiner 4x1
Power Combiner 8x1
Power Combiner
Isolator
Ideal Isolator
Circulator
Ideal Circulator
Pump Coupler Co Propagating
Pump Coupler Counter Propagating
PMD Emulator
Connector
Polarization Delay
Polarization Phase Shift
Polarization Waveplate
Polarization Filter

Saturable Absorber

NetworkComponentLibrary

CLSID "{F11D0C16-3C7D-11D4-93F0-0050DAB7C5D6}"

Ideal Frequency Converter
Optical Switch
Digital Optical Switch
Optical Y Switch
Optical Y Select
Ideal Switch 2x2
Ideal Y Switch
Ideal Y Select
Ideal Y Switch 1x4
Ideal Y Select 4x1
Ideal Y Switch 1x8
Ideal Y Select 8x1
Ideal Y Select Nx1
Ideal Y Switch 1xN

ReceiversComponentLibrary

CLSID "{0B8011BF-3C6B-11D4-93EF-0050DAB7C5D6}"

Clock Recovery
PIN Photodiode
APD
Optical Chirp Detector
Optical Phase Detector
Data Recovery
3R Regenerator
Electronic Equalizer
MLSE Equalizer
Optical Power Detector
VV FF Phase Recovery
Dual-Port VV FF Phase Recovery
DSP for QPSK
DSP for 16-QAM
Universal DSP

OpticalSignalComponents

CLSID "{A5BEC796-4CC4-4a8c-9F1B-345D023EE5CA}"

Optical Gain
Optical Adder
Optical Subtractor
Optical Bias
Optical Multiplier
Merge Optical Signal Bands
Convert To Parameterized

Convert To Noise Bins
Convert To Optical Individual Samples
Convert From Optical Individual Samples
Photonic All parameter Analyzer
Optical Hard Limiter
Optical Downsampler
Signal Type Selector
Channel Attacher
Convert To Sampled Signals
Convergence Monitor
Optical Complex Conjugate

ToolsLibrary

CLSID "{E138711F-3E0D-11D4-93F3-0050DAB7C5D6}"

Fork 1x2
Loop Control
Ground
Buffer Selector
Fork 1xN
Binary Null
Optical Null
Electrical Null
Binary Delay
Optical Delay
Electrical Delay
Optical Ring Controller
Duplicator
Save to file
Load from file
Switch
Select
Limiter
Initializer
Electrical Ring Controller
Command Line Application
Swap Horiz
Termination
M-ary Null

OptiwaveSoftwareComponentsLibrary

CLSID "{33B1D7C9-2EE1-40c1-B640-96F158649FF0}"

OptiAmplifier
OptiGrating
WDM Phasar Demux 1xN
WDM Phasar Mux Nx1
OptiBPM Component NxM

MatlabComponentLibrary

CLSID "{6412335E-679E-4fc6-A4CE-216F51442F45}"

MATLAB Optical Filter
MATLAB Filter
MATLAB Component

CoSimulationComponentLibrary

CLSID "{CEB8E7D7-8495-4774-A291-77D7760120EA}"

Cpp Component
Python Component

ScilabComponentLibrary

CLSID "{D512926D-62CF-4ebd-8527-0F5D9D8419E0}"

Scilab Component

MultimodeVisualizersLibrary

CLSID "{2D7672C6-F72A-4435-BD35-CF0C04943DB7}"

Spatial Visualizer
Encircled Flux Analyzer

DynamicOXC

CLSID "{8D228FBE-779C-49ff-B28E-0A63C55635A6}"

Dynamic Y Select Nx1 Measured
Dynamic Y Switch 1xN Measured
Dynamic Y Switch 1xN
Dynamic Y Select Nx1
Dynamic Space Switch Matrix NxM Measured
Dynamic Space Switch Matrix NxM

ElectricalSignalComponents

CLSID "{1CCD3D1F-8E82-4a3e-92B9-1C9C20572BB1}"

Duobinary Pulse Generator
Electrical Signal Time Delay
Electrical Gain
Electrical Adder
Electrical Subtractor
Electrical Multiplier
Electrical Bias
Electrical Jitter

Noise Source
Electrical Norm
Electrical Differentiator
Electrical Integrator
Electrical Rescale
Convert To Electrical Individual Samples
Convert From Electrical Individual Samples
Electrical NOT
Electrical AND
Electrical OR
Electrical XOR
Electrical NAND
Electrical NOR
Electrical XNOR
Electrical Attenuator
90 Degree Hybrid Coupler
180 Degree Hybrid Coupler
DC Block
Splitter 1x2
Splitter 1xN
Combiner 2x1
Combiner Nx1
Electrical Phase Shift
1 Port S Parameters
2 Port S Parameters
3 Port S Parameters
4 Port S Parameters
S Parameter Extractor
Electrical Reciprocal
Electrical Abs
Integrate And Dump
Predistortion
Electrical Sgn
Voltage Controlled Oscillator
T Flip-Flop
D Flip-Flop
JK Flip-Flop
RS Flip-Flop
RS NOR Latch
RS NAND Latch
Clocked RS NAND Latch
Electrical Downsampler
OFDM Modulation (OS12)
OFDM Demodulation (OS12)
Coaxial Cable
Transmission Line
Two Wire Cable
RLCG Transmission Line
Parallel Plate Transmission Line
OFDM Modulator Measured
OFDM Demodulator Measured
Burst Demodulator
Burst Modulator
Digital to Analog

Analog to Digital
OFDM Modulation
OFDM Demodulation
OFDM Demodulation Dual Polarization
Add Noise to Sampled Signal
Electrical Complex Conjugate
Electrical Nonlinear Device

MultimodeFibersComponentLibrary

CLSID "{24797318-DD42-4f59-8B7A-D12D3BFC9B1B}"

Linear Multimode Fiber
Measured Index Multimode Fiber
Parabolic Index Multimode Fiber

SOAComponentLibrary

CLSID "{3083FC6C-F741-4dd8-A1A9-B5851670A418}"

Traveling Wave SOA
Wideband Traveling Wave SOA
Reflective SOA

WaveguideAmplifierComponentLibrary

CLSID "{00094873-B580-40c3-B2BA-0A66656F4C68}"

Er Yb Codoped Waveguide

OptiAmplifierComponentLibrary

CLSID "{2361D0F5-EF31-4604-B4FC-DCB828CA50FC}"

Attenuator Bidirectional
Isolator Bidirectional
2x2 Switch Bidirectional
3 Port Filter Bidirectional
Circulator Bidirectional
Coupler Bidirectional
Pump Coupler Bidirectional
Reflective Filter Bidirectional
Reflector Bidirectional
Tap Bidirectional
Transmission Filter Bidirectional
Polarization Combiner Bidirectional
1xN Splitter Bidirectional
Nx1 Mux Bidirectional
Connector Bidirectional

WDMSystemsComponentLibrary

CLSID "{2A9D9567-99DE-4c83-8F05-720F1480B57E}"
WDM Transmitter
WDM Interleaver Demux

OptiSPICEComponentLibrary

CLSID "{33BDB967-DCE3-401c-A870-62A85B13FDBC}"

OptiSPICE Output
OptiSPICE NetList

MeasuredDevicesComponentLibrary

CLSID "{39752FD8-EC71-479b-986E-95A5705A68E3}"

Measured Component
Luna Technologies OVA Measurement

CATVComponentLibrary

CLSID "{4462750B-F858-42bb-A415-994DFE4D44BD}"

Carrier Generator
Carrier Generator Measured
Electrical Amplitude Modulator
Electrical Frequency Modulator
Electrical Phase Modulator
Electrical PAM Modulator
Electrical QAM Modulator
PAM Pulse Generator
QAM Pulse Generator
PSK Pulse Generator
Electrical PSK Modulator
DPSK Pulse Generator
Electrical DPSK Modulator
Electrical FSK Modulator
Electrical CPFSK Modulator
OQPSK Pulse Generator
Electrical OQPSK Modulator
MSK Pulse Generator
Electrical MSK Modulator
Electrical Amplitude Demodulator
Electrical Phase Demodulator
Electrical Frequency Demodulator
PAM Sequence Generator
M-ary Pulse Generator
QAM Sequence Generator
PSK Sequence Generator
DPSK Sequence Generator
PAM Sequence Decoder
QAM Sequence Decoder
PSK Sequence Decoder
DPSK Sequence Decoder

M-ary Threshold Detector
Quadrature Demodulator
Quadrature Modulator
M-ary Raised Cosine Pulse Generator
PPM Sequence Generator
DPIM Sequence Generator
PPM Sequence Decoder
DPIM Sequence Decoder
4B5B Sequence Generator
4B5B Sequence Decoder
NRZI Sequence Generator
NRZI Sequence Decoder
AMI Sequence Generator
AMI Sequence Decoder
Manchester Sequence Generator
Manchester Sequence Decoder
4B3T Sequence Generator
4B3T Sequence Decoder
8B10B Sequence Generator
8B10B Sequence Decoder
Decision
PAM Decision
FEC Encoder
FEC Decoder

BinarySignalComponents

CLSID "{498E720E-4E63-48ca-BF47-0A19891A9A5F}"

Binary NOT
Binary AND
Binary OR
Binary XOR
Binary NAND
Binary NOR
Binary XNOR
Delay
Duobinary Precoder
4-DPSK Precoder
Convert To Individual Bits
Convert From Individual Bits
Serial To Parallel Converter
Parallel To Serial Converter
BER Test Set
Serial To Parallel Converter 1xN
Parallel To Serial Converter Nx1
Set BER
BER Test Multiple

MultimodeCompoundComponentLibrary

CLSID "{58644D15-548B-4bb1-96DA-77A9BF978739}"

Spatial Optical Receiver
Spatial PIN Photodiode
Spatial APD
Spatial Optical Transmitter
Spatial CW Laser
Spatial single mode laser
Spatial LED
Spatial Optical Gaussian Pulse Generator
Spatial Optical Impulse Generator
Spatial Optical Sech Pulse Generator
Spatial VCSEL

MultimodeComponentLibrary

CLSID "{6285C415-6285-45ad-A20A-4A65D154E71F}"

Multimode Generator
Laguerre Transverse Mode Generator
Hermite Transverse Mode Generator
Donut Transverse Mode Generator
Spatial Connector
Spatial Aperture
Thin Lens
Mode Combiner
Differential Mode Delay Analyzer
Vortex Lens
Measured Transverse Mode Generator
Save Transverse Mode
Mode Selector
Mode ID Modifier
Spatial Demultiplexer

DefaultCompoundComponentLibrary

CLSID "{637544D5-16C0-40fc-BAE0-C9BACDDA528B}"

Optical Receiver
Optical Transmitter
Optical Duobinary Transmitter
Optical DPSK Transmitter
Optical CSRZ Transmitter
Optical DPSK Receiver
Optical DP QPSK Transmitter
Optical QPSK Transmitter
Optical Coherent DP PSK/QAM Receiver
Optical Coherent PSK/QAM Receiver
16-QAM Transmitter
Optical Coherent QAM Receiver
Optical Coherent DP-16-QAM Receiver
Optical DP-16-QAM Transmitter
90 Degree Optical Hybrid
Set OSNR
Lightwave Analyzer

FreeSpaceOpticsComponentLibrary

CLSID "{88622215-47B5-4ee7-924B-256B980716C7}"

FSO Channel
OWC Channel
LOS Channel
LiFi Channel

EDACosimulationLibrary

CLSID "{899442C9-5ADA-4921-BEAB-871473563AC9}"

Load ADS File
Save ADS File
Load Spice CSDF File
Save Spice Stimulus File
Triggered Load Spice CSDF File
Triggered Save Spice Stimulus File

MultimodeTransmittersComponentLibrary

CLSID "{deaba421-f351-459d-8a19-5a17324a7c7e}"

Spatiotemporal VCSEL