



Setting the Standards

LGX Box Type PLC Splitter



Description	Planar Lightwave Circuit (PLC) Splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. Oxin provides whole series of 1xN splitter and 2xN splitter products that are tailored for specific applications.
Features and Benefits	<ol style="list-style-type: none"> 1. Low Insertion loss 2. Low PDL 3. Compact Design 4. Good channel-to-channel uniformity 5. Wide Operating Wavelength: From 1260nm to 1650nm 6. Wide Operating Temperature: From -40°C to 85°C 7. High Reliability and Stability
Applications	<ul style="list-style-type: none"> • Can be used for FTTX Systems • Passive Optical Networks (PON) • CATV TV Networks (CATV) • Optical Signal Distribution
Certification and Compliance	<p>YD/T1117-2001</p> <p>Telcordia GR-1221-CORE-1999</p> <p>Telcordia GR-1209-CORE-2001</p>

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1xN PLC Splitter Specifications

Port Configuration		1x2	1x4	1x8	1x16	1x32	1x64
Fiber Type		SMF28-e or customer specified					
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Typical	3.8	7.3	10.5	13.5	16.3	19.8
	Max	4.1	7.7	11.0	14.0	17.2	21.3
Loss Uniformity(dB)	Max	0.4	0.5	0.6	1.0	1.3	1.9
Return Loss (dB)	Min	50	50	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.3	0.3	0.3	0.3
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.3	0.3	0.3	0.5	0.5	0.8
Temperature Stability (-40~85 °C)(dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Operating Temperature (°C)		-20~85					
Storage Temperature (°C)		-40~85					
Package Size (mm)		128×101×25		128×101×51		10×1301×102	10×1301×206

Note: All the data above does not include connectors.

Add an additional 0.2dB loss per connector.

2xN PLC Splitter Specifications

Port Configuration		2x2	2x4	2x8	2x16	2x32	2x64
Fiber Type		SMF28-e or customer specified					
Operating Wavelength (nm)		1260~1650					
Insertion Loss (dB)	Typical	4.2	7.8	11.2	14.6	17.4	21.4
	Max	4.6	8.2	11.6	15.0	17.9	21.9
Loss Uniformity(dB)	Max	1.0	1.4	1.5	2.0	2.5	2.5
Return Loss (dB)	Min	50	50	50	50	50	50
Polarization Dependent Loss(dB)	Max	0.2	0.2	0.4	0.4	0.4	0.5
Directivity (dB)	Min	55	55	55	55	55	55
Wavelength Dependent Loss(dB)	Max	0.8	0.8	0.8	0.8	0.8	1.0
Temperature Stability (-40~85 °C)(dB)	Max	0.5	0.5	0.5	0.8	0.8	1.0
Operating Temperature (°C)		-20~85					
Storage Temperature (°C)		-40~85					
Package Size (mm)		158×132×09		158×158×30		158×130×87	158×130×174

Note: All the data above does not include connectors.

Add an additional 0.2dB loss per connector.



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