LGX BOX - PLC SPLITTER

Planar Lightwave Circuit (PLC) Splitters are built using unique silica glass waveguide process. These devices have low insertion loss with high return loss over a wide wavelength range. The input of PLC Spitters distribute optical power to the output ports and are commonly used in FTTx systems, communication networks, Analog Passive Optical Networks, CATV networks and other fiber optic systems. The modular design of LGX box splitter can save installation time, layout space and achieve rapid deployment, but still provide reliable protection for splitter inside. The outer box is made of high quality ABS material with high strength heat resistance and good chemical resistance.

Features

- Low Insertion loss & High Return Loss
- Low PDL
- Modular Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength Range 1260~1650nm
- Wide Operating Temperature: From -40℃ to 85℃
- High Reliability and Stability For Indoor and Outdoor Applications

Applications

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- IEC 61300

- RoHS

Specifications

Parameters		1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength(nm)		1260~1650					
Insertion Loss (dB)	Typical	3.6	6.8	10.0	13.1	16.2	20.0
	Max	3.8	7.2	10.5	13.6	16.5	20.5
Uniformity (dB)	Typical	0.3	0.4	0.5	0.6	0.8	1.2
	Max	0.4	0.6	0.8	1.2	1.5	2.5
PDL (dB)	Typical	0.1	0.1	0.15	0.15	0.15	0.2
	Max	0.2	0.2	0.3	0.3	0.3	0.4
Return Loss (dB)	Min	55(w/o connector or APC), 50(PC)					
Directivity (dB)	Min	55					
Fiber Type		ITU-T G657A1 or customer specified					
WDL (dB)	Typical	0.2	0.2	0.2	0.3	0.3	0.3
	Max	0.3	0.3	0.3	0.5	0.5	0.5
TDL (dB) (-40~85℃)	Typical	0.2	0.2	0.2	0.3	0.3	0.3
	Max	0.4	0.4	0.4	0.5	0.5	0.5
Operating Temperature (℃)		-40~85					
Storage Temperature (℃)		-40~85					
LGX Box Size(mm)		130x100x25			130x100x50	130x100x102	130x100x205

Notes: 1. Measurements are done at 1310 & 1550nm, room temperature. Connector loss is excluded in the above specifications. Add 0.4dB IL if two connectors are added on input and output.

Packing