VOYGAR
QUALITY IS OUR CONCERN

PLC Splitter 1: N or 2: N ABS Box Type with LC Pigtails.



The PLC Splitters is branching devices that is used to distribute optical signals to multiple locations for processing. In optical networks, it is often necessary to split an optical signal into many identical signals, or to combine many signals into a single signal.
Planar lightwave circuit (PLC) splitter is an optical power distribution device based on the integrated waveguide of quartz plate. With the features of small size, wide range of operating wavelength, stable reliability and good uniformity, It's widely used in PON,ODN,FTTX point to connect between termination device and central office to achieve the signal splitter.
VOYGAR provides ABS Cassette PLC Splitter family has 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 2x2, 2x4, 2x8, 2x16, 2x32,2 x 64 PLC splitter, with specifications that are tailored for different applications and markets. Wide bandwidth, compact size. All products meets, ROHS, GR-1209-CORE-2001 and GR-1221-CORE-1999.

Features

- Low Insertion loss
- Low Polarization Dependent Loss.
- Single Fusion design
- Compact size
- Uniform power splittering
- Good channel-to-channel uniformity
- Wide Operating Wavelength: from 1260nm to 1650nm
- Wide Operating Temperature: from -40°C to 85°C
- High Reliability and Stability
- Excellent Environmental Stability.
- Excellent Mechanical Stability.
- Telcordia GR-1221 and GR-1209.

Application

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

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Optical Specifications

Splitter Type	ABS Box
Fiber length	1.5m
Connector Type	LC UPC
Optical Fiber Type	Corning SMF-28e fiber, G657A1
Fiber type	G657A1
Operation Wavelength	1260～1650 nm
Cable type	900um
Directivity (dB) Min *	55
Return Loss (dB) Min *	55 (50)
Power Handling(mW)	300

Parameter	Unit	Specification (P Grade)					
Channel Number		**1X2**	**1X4**	**1X8**	**1X16**	**1X32**	**1X64**
Insertion Loss with Connector (Max)	dB	4.1/4.4	7.4/7.9	10.5/11.0	13.8/14.1	17.1/17.4	20.4/21.0
Insertion Loss without Connector (Max)	dB	3.8/4.1	7.1/7.6	10.2/10.7	13.5/13.8	16.8/17.1	20.1/20.7
Uniformity (Max.)	dB	0.6	0. 7	0.8	1.0	1.5	2.0
Polarization Dependent Loss	dB	0.2	0.2	0.2	0.3	0.3	0.3
Channel Number		**2X2**	**2X4**	**2X8**	**2X16**	**2X32**	**2X64**
Insertion Loss with Connector (Max)	dB	4.4/4.6	7.7/8.1	10.8/11.3	14.1/14.4	17.4/17.7	20.6/21.3
Insertion Loss without Connector (Max)	dB	4.1/4.3	7.4/7.8	10.5/11	13.8/14.1	17.1/17.4	20.3/21.0
Uniformity (Max.)	dB	0.6	0. 7	0.8	1.0	1.5	2.0
Polarization Dependent Loss	dB	0.2	0.2	0.2	0.3	0.3	0.5
Return Loss	dB	≥45（PC）；50（UPC）；60（APC）					

Environmental Conditions

Operating Temperature	℃	-40～+85
Storage Temperature	℃	-40～+85
Operating Humidity	%RH	≤93
Storage Humidity	%RH	≤93

Dimension (mm)

Splitter	1X2	1X4	1X8	1X16	1X32	1X64
Cassette size	100×80×10	100×80×10	100×80×10	120x80x18	120x80x18	140×114×18
Splitter	**2X2**	**2X4**	**2X8**	**2X16**	**2X32**	**2X64**
Cassette size	100×80×10	100×80×10	100×80×10	120x80x18	120x80x18	140×114×18

Standards

ISO9001
RoHS, CE

Ordering information

SPLB2102	PLC Splitter 1: 2 ABS Box Type With1.5m LC UPC Pigtails
SPLB2104	PLC Splitter 1: 4 ABS Box Type With1.5m LC UPC Pigtails
SPLB2108	PLC Splitter 1: 8 ABS Box Type With1.5m LC UPC Pigtails
SPLB2116	PLC Splitter 1: 16 ABS Box Type With1.5m LC UPC Pigtails
SPLB2132	PLC Splitter 1: 32 ABS Box Type With1.5m LC UPC Pigtails
SPLB2204	PLC Splitter 2: 4 ABS Box Type with1.5m LC UPC Pigtails
SPLB2208	PLC Splitter 2: 8 ABS Box Type with1.5m LC UPC Pigtails
SPLB2216	PLC Splitter 2: 16 ABS Box Type with1.5m LC UPC Pigtails
SPLB2232	PLC Splitter 2: 32 ABS Box Type with1.5m LC UPC Pigtails