

FTTH ACCESSORIES PRODUCT

Blockless PLC Splitter



FEATURES

- Low Insertion loss and Low PDL
- Uniform power splitting
- High reliability
- Excellent environmental stability
- Compact size and various package



APPLICATION

- FTTx Systems
- Digital, hybrid and AM-Video systems
- LAN,WAN and Metro Networks
- CATV systems
- Other applications in fiber optic systems

PRODUCT DESCRIPTION

Planar waveguide light optical distributor (PLC Splitter), is a kind of planar waveguide integrated optical device, it can be 1260nm ~ 1650nm such a wide range of wavelengths of light power reservation in realization, the distribution of wavelength range covers EPON technology used 1310nm, 1490nm and 1550nm three wavelengths. Especially suitable for EPON Ethernet passive optical network access technology FTTP fiber network system, broadband passive optical distributor (POS) use.

PECIFICATIONS

Model	Output tube diamete	Inlet/ outlet fiber length	Pipe Sizes
Blockless PLC Splitter 1x2 Blockless	0.25mm/0.9mm	1M	4mm*7mm*50mm
Blockless PLC Splitter 1x4 Blockless	0.25mm/0.9mm	1M	4mm*7mm*50mm
Blockless PLC Splitter 1x8 Blockless	0.25mm/0.9mm	1M	4mm*7mm*60mm
Blockless PLC Splitter 1x16 Blockless	0.25mm/0.9mm	1M	4mm*12mm*60mm
Blockless PLC Splitter 1x32 Blockless	0.25mm/0.9mm	1M	6mm*20mm*80mm

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Projects	Parameter
Operating temperature	-25°C ~+40°C
Storage temperature	-25°C ~+55°C
Relative humidity	≤85%(+30°C)
Air pressure	70Kpa~106Kpa

PLC SPLITTER PERFORMANCE

type		1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)		1260-1650					
Insertion loss (dB)	Max	4.1	7.5	10.7	13.9	17.2	20.6
Loss uniformity (dB)	Max	0.5	0.6	0.8	1.0	1.5	2.0
Return Loss (dB)		≥50	≥50	≥50	≥50	≥50	≥50
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Fiber Type		Corning smf-28e or customer designation					
Wavelength Dependent Loss (dB)	Max	0.6	0.6	0.6	0.8	0.8	0.8
Temperature correlation loss-40~85°C (dB)	Typical value	0.2	0.2	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5
Working Temperature(°C)		-40~85°C					
Storage Temperature (°C)		-40~85°C					

type		2×2	2×4	2×8	2×16	2×32	2×64
Operating Wavelength (nm)		1260-1650					
Insertion loss (dB)	Max	4.3	7.8	11.1	14.4	17.7	20.7
Loss uniformity (dB)	Max	0.5	0.6	0.8	1.0	1.5	2.0
Return Loss (dB)		≥50	≥50	≥50	≥50	≥50	≥50
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Directivity (dB)		≥55	≥55	≥55	≥55	≥55	≥55
Fiber Type		Corning smf-28e or customer designation					
Wavelength Dependent Loss (dB)	Max	0.6	0.6	0.6	0.8	0.8	0.8
Temperature correlation loss-40~85°C (dB)	Typical value	0.2	0.2	0.3	0.4	0.4	0.4
	Max	0.5	0.5	0.5	0.5	0.5	0.5
Working Temperature(°C)		-40~85°C					
Storage Temperature (°C)		-40~85°C					

ORDER INFOMATION

PRODUCT	PART NUMBER
Blockless PLC Splitter 1x2, SC/APC, 1m	F-BPLC-APC-SC-0102-01
Blockless PLC Splitter 1x4, SC/APC, 1m	F-BPLC-APC-SC-0104-01
Blockless PLC Splitter 1x8, SC/APC, 1m	F-BPLC-APC-SC-0108-01
Blockless PLC Splitter 1x16, SC/APC, 1m	F-BPLC-APC-SC-0116-01
Blockless PLC Splitter 1x32, SC/APC, 1m	F-BPLC-APC-SC-0132-01
Blockless PLC Splitter 1x2, LC/APC, 1m	F-BPLC-APC-LC-0102-01
Blockless PLC Splitter 1x4, LC/APC, 1m	F-BPLC-APC-LC-0104-01
Blockless PLC Splitter 1x8, LC/APC, 1m	F-BPLC-APC-LC-0108-01
Blockless PLC Splitter 1x16, LC/APC, 1m	F-BPLC-APC-LC-0116-01
Blockless PLC Splitter 1x32, LC/APC, 1m	F-BPLC-APC-LC-0132-01