

FTTH ACCESSORIES PRODUCT

Module Type PLC Splitter



FEATURES

- Low insertion loss.
- Low Polarization Dependent Loss.
- Good channel-to-channel uniformity.
- Loss is not sensitive to the optical wavelength and can meet the transmission needs of different wavelengths.
- High Reliability and Stability.
- Signal can be distributed uniformly to the user.
- Compact structure, small volume, can be directly installed in the existing various junction box



APPLICATION

- Fiber to the point (FTTX)
- Fiber to the home (FTTH)
- Passive optical networks(PON, GEAPON)
- Local area networks (LAN) Cable television (CATV)
- Telecommunication Networks

PRODUCT DESCRIPTION

Planar waveguide light optical distributor (ABS Box 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 optical distributor (POS) use.

PECIFICATIONS

Model	Output tube diameter	Inlet/ outlet fiber length	Connector type	Pipe Sizes
Module Type PLC Splitter 1x2 Blockless	0.9mm/2.0mm/3.0mm	2M	SC/LC/ST/FC	100mm*80mm*10mm
Module Type PLC Splitter 1x4 Blockless	0.9mm/2.0mm/3.0mm	2M	SC/LC/ST/FC	100mm*80mm*10mm
Module Type PLC Splitter 1x8 Blockless	0.9mm/2.0mm/3.0mm	2M	SC/LC/ST/FC	100mm*80mm*10mm
Module Type PLC Splitter 1x16 Blockless	0.9mm/2.0mm/3.0mm	2M	SC/LC/ST/FC	120mm*80mm*18mm
Module Type PLC Splitter 1x32 Blockless	0.9mm/2.0mm/3.0mm	2M	SC/LC/ST/FC	120mm*80mm*18mm

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

FOCOMM (THAILAND) CO., LTD

12 Soi Sukhaphiban 5 Soi 5 Yaek 3, Tha Raeng Subdistrict, Bang Khen District Bangkok 10220

Email : info@focomm-cabling.com www.focomm-cabling.com



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 INFORMATION

PRODUCT	PART NUMBER
Module Type PLC Splitter 1x2, SC/APC, 2m	F-MPLC-APC-SC-0102-01
Module Type PLC Splitter 1x4, SC/APC, 2m	F-MPLC-APC-SC-0104-01
Module Type PLC Splitter 1x8, SC/APC, 2m	F-MPLC-APC-SC-0108-01
Module Type PLC Splitter 1x16, SC/APC, 2m	F-MPLC-APC-SC-0116-01
Module Type PLC Splitter 1x32, SC/APC, 2m	F-MPLC-APC-SC-0132-01
Module Type PLC Splitter 1x2, LC/APC, 2m	F-MPLC-APC-LC-0102-01
Module Type PLC Splitter 1x4, LC/APC, 2m	F-MPLC-APC-LC-0104-01
Module Type PLC Splitter 1x8, LC/APC, 2m	F-MPLC-APC-LC-0108-01
Module Type PLC Splitter 1x16, LC/APC, 2m	F-MPLC-APC-LC-0116-01
Module Type PLC Splitter 1x32, LC/APC, 2m	F-MPLC-APC-LC-0132-01