Fiber optic ABS Box splitter

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.

Application:

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

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.

Pecifications and Models:

Model	Output tube diameter	Inlet/ outlet fiber length	Connector type	Pipe Sizes
2&2*2 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	100mm*80mm*10mm
4&2*4 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	100mm*80mm*10mm
8&2*8 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	100mm*80mm*10mm
16&2*16 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	120mm*80mm*18mm

2*32 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	120mm*80mm*18mm
2*64 ABS Box splitter	0.9mm/2.0mm/3.0mm	1M	SC/LC/ST/FC	141mm*115mm*18mm

Mechanical and environmental characteristics：

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

PLC Splitter performance:

1xN PLC Splitter((Room temperature, including connector loss)

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℃（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（℃）		-40～85℃					
Storage Temperature（℃）		-40～85℃					

2xN PLC Splitter((Room temperature, including connector loss)

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℃（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（℃）		-40～85℃					

Storage Temperature（℃）	-40～85℃