

PLC splitter specification



(PLC insert type)

Ordering Information:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product type	Inlet and exit diameter	Inlet and fiber length	Insert box size
1XNor 2XN 0102=1X2 0103=1X3 0104=1X4 0105=1X5 0106=1X6 0107=1X7 0108=1X8 0112=1X12 0116=1X16 0124=1X24 0132=1X32 0164=1X64	2=0.9mm	O=0.5M S=Customized	1x2 } ⇕ } 130x100x25 mm 1x8 } 1x12 } ⇕ } 130x100x50 mm 1x16 } 1x24 } } 130x100x102 mm 1x32 } 1x64 } 130x100x206 mm

Product description:

The planar waveguide optical splitter (PLC Splitter) is a quartz-based integrated waveguide optical power distribution device with small size, wide operating wavelength range, high reliability, good spectral uniformity, etc., especially suitable for passive optical networks. (EPON, GPON, etc.) connects the central office and terminal equipment and realizes the splitting of optical signals, providing 1XN and 2XN full range of products, and does not customize the optical splitter suitable for various occasions.

Product features:

Low loss, stable polarization

Compact design

Good channel uniformity

High stability and reliability

Certified by Telcordia GR.1209 and GR.1221

Product application areas:

Fiber to the home

Passive optical network

wired TV internet

PON-FTTX network

Technical parameters: 1XN optical splitter

Parameter	1X2	1X3	1X4	1X6	1X8	1X12	1X16	1X24	1X32	1X48	1X64
Working wavelength (nm)	1260-1650										
Fiber type	G657A1 or customized										
Insertion loss (dB)	4.2	6.4	7.5	9.4	10.8	12.8	13.8	15.8	17.1	18.7	20.5
Uniformity (dB)	≤0.4	≤0.5	≤0.5	≤0.6	≤0.8	≤1.0	≤1.0	≤1.5	≤1.5	≤1.8	≤1.8
Polarization dependent loss (dB)	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.3	≤0.3	≤0.3	≤0.3	≤0.4	≤0.35
Return loss (dB)	≥55										
Directionality (dB)	≥55										
Fiber length (m)	1.0 or customized										
Temperature stability (dB)	-40°C - 85°C (≤0.5)										
Working temperature °C	-40°C - 85°C										
Storage temperature °C	-40°C - 85°C										
Maximum power	1000										

(nW)	
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Technical parameters: 2XN optical splitter

Parameter	2X2	2X4	2X8	2X16	2X32	2X64
Working wavelength (nm)	1260-1650					
Fiber type	G657A1 or customized					
Insertion loss (dB)	4.5	7.8	11.1	14.1	17.4	20.8
Uniformity (dB)	≤ 0.8	≤ 1.0	≤ 1.0	≤ 1.5	≤ 1.5	≤ 2.0
Polarization dependent loss (dB)	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.3	≤ 0.3	≤ 0.35
Return loss (dB)	≥ 55					
Directionality (dB)	≥ 55					
Fiber length (m)	1.0 or customized					
Temperature stability (dB)	-40°C - 85°C (≤ 0.5)					
Working temperature ° C	-40°C - 85°C					

Storage temperature ° C	-40°C- 85°C
Maximum power (nW)	1000