

PASSIVE COMPONENTS

1xN PLC Splitter

Planar lightwave circuit splitter from 1x2 to 1x64, with even splitting across 1260 nm to 1650 nm.



Key Features

- Configurations from 1x2 to 1x64
- Flat performance across 1260 nm to 1650 nm
- Even splitting ratio across all outputs
- Insertion loss 3.8 dB at 1x2, 20.5 dB at 1x64
- Passive — no power required

Applications

- PON and FTTx distribution networks
- Optical signal distribution and broadcast
- Test setups requiring even power division
- CATV optical distribution

Overview

A PLC splitter divides one input evenly among N outputs on a planar waveguide chip. Unlike a fused splitter, the split ratio holds flat across the full 1260 nm to 1650 nm range, which is why PON deployments standardized on this technology — one splitter serves 1310, 1490 and 1550 nm simultaneously.

Configurations run 1x2 through 1x64. Insertion loss tracks the split: 3.8 dB at 1x2, rising to 20.5 dB at 1x64.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	1x2, 1x4, 1x8, 1x16, 1x32, 1x64		
Operating Wavelength	1260 – 1650	nm	
Insertion Loss	3.8 – 20.5	dB	3.8 dB at 1x2, 20.5 dB at 1x64

Order or request a quote

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