

Spectrum Splitter Specifications Table



Summary of Content

Spectrum splitters, including PLC, FBT, and dichroic types, are characterized by insertion loss, PDL, wavelength range, split ratios, and environmental tolerances.

Key Specifications of Spectrum Splitters

Parameter	PLC Splitter	FBT Splitter	Dichroic Beam Splitter	Split Ratio
1x2 to 1x128, symmetrical or asymmetrical	Typically 1:2 (10/90% uneven distribution)	N/A	(wavelength-based reflection/transmission)	
Insertion Loss (Max.)	1x12: 12.5 dB, 1x16: 13.8 dB, 1x32: 17.0 dB, 1x64: 20.5 dB	Varies by ratio; 1:2 uneven split	Depends on wavelength; e.g., long-pass cut-on 700 nm	
Uniformity (Max.)	1x12: 1.1 dB, 1x16: 1.2 dB, 1x32: 1.3 dB, 1x64: 2.0 dB	N/A	Narrow spectral tolerance with defined transition zone	
Polarization Dependent Loss (PDL)	≤ 0.2 -0.3 dB	N/A	N/A	
Operating Wavelength	1260-1650 nm	Typically telecom wavelengths (1310/1550 nm)	Short-wave or long-wave ranges, e.g., 400-700 nm or 700-1100 nm	
Operating Temperature	-40°C to 85°C	Standard telecom range	Up to 200°C (depending on coating)	
Housing / Packaging	Compact housing for splice trays, wall-mounted boxes, optical distribution boxes	Connectorized or bare fiber	Hard-coated dielectric layers on glass substrate	
Connector Types	SC/PC, SC/APC, or bare fiber	Most standard fiber connectors	N/A	
Applications	FTTx, LAN/WAN, CATV, telecom networks	Signal splitting/combining in fiber networks	Optical experiments, wavelength separation, laser systems	
Material	Silica-based waveguide	Fused silica fiber	Alternating low/high refractive dielectric layers	

Notes on Types



Article Content

PLC Splitters Spec Sheet

They split or combine light from one or two incoming fibers to multiple numbers of outgoing fibers. They perform uniformly over a

Splitter specs? : r/SpectrumCable

Splitter specs? Anyone know what the splitter frequency range is in a modern spectrum internet / cable system? I find 5-1000mhz 5

Optical Beamsplitters | Beamsplitter Selection | Edmund Optics

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Dual or Broad-band Polarizing Beamsplitters

Filters below or the form at the bottom can be used to assist product search or make further inquiries. If you do not find the suitable

Optical-PLC-Splitter-Specification

Product Specification Optical PLC Splitter 1. Introduction 1.1 General This specification covers the standards and requirements for

DATA SHEET D4137 Splitter

technologies, PLC and FBT: PLC-splitters (Planar Lightwave Circuit) distributes the signal equally to all the outputs and have spl.

FHD® Cassette PLC Fiber Splitter Data Sheet | FS

Overview Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using

Planar Light Circuit (PLC) Optical Splitters

Planar Light Circuit (PLC) Optical Splitters Corning's Planar Light Circuit (PLC) splitters are fully passive optical branching devices

Splitters | Corning

Product Drawings Technical Documents Application Engineering Notes Corning Specifications Generic Specifications Standard

DATA SHEET D4137 Splitter

Description passive splitter distributes the optical signal to several fibres. The signal may be transmitted both ways through the splitter

PLC splitter

Splitter is a key component in FTTX and is responsible to distribute the signal from CO to numbers of premises. Planar Lightwave

Microsoft Word

The following specifications shall be met by those splitters. For exchange splitters, this Technical Reference uses the requirements

DTS0095

Fiber optic beam splitters are used to divide light from one fiber into two or more fibers. Light from an input fiber is first collimated,

Spectral Splitter

A spectral splitter is defined as a device that selectively transmits certain portions of the solar spectrum to photovoltaic cells while

Optical Splitter Insertion Loss Table

The document contains tables listing the insertion loss in dBm for various splitting ratios of an optical splitter, ranging from 1% to

Optical Splitter

Optical Splitter - What does it do? Orion offers 1x2 Optical Splitters in 90:10 and 80:20 ratios. The Optical Splitters "split" the input

Beamsplitters & Windows

See clearly across the spectrum with our beamsplitters and windows. Review all product categories.

High-Density Bulkhead Fiber Optic Splitters

Telect's HDX high-density bulkhead-style fiber optic splitter solution (patent pending) provides cost-effective industry-leading splitter

Multi-Wavelength Passive Optical Splitters

Product Description Single-mode Fiber PLC splitter (Planar Lightwave Circuit). Maxcom PLC splitters provide a low-cost solution for

Spectrum Splitter for Internet & TV - Install | Pros | Cons

Do you want to use Spectrum splitter for internet & TV? Learn about the installation, pros

4 Important Technical Indicators of Fiber Optic Splitters

In this article, we will delve into four critical indicators: insertion loss, splitting ratio, isolation and stability. Help you

Using a Splitter With Your Spectrum Equipment

If you need more than one splitter, a Spectrum technician must install an amplifier at your location. Contact us to schedule an

Optical Splitters: Split Ratios, Splitting Architectures & PON Network ...

This guide focuses on two critical aspects of optical splitters that define FTTH performance: split ratios (how signals

SuperK SPLIT

The SuperK SPLIT is a passive filter that divides the SuperK spectrum into two broadband spectral outputs. Filter to your specific

Splitters

Broadband digital splitters are designed to meet the highest technical performance in the broadband industry. Trust your network

OSP Splitters | Amphenol Network Solutions

Amphenol Network Solutions offers a complete line of discrete Optical Splitter Components for a wide range of uses in various optical

Customer End Splitter Information for ADSL/POTS Spectrum Sharing

This Technical Reference does not contain the splitter specification, this is contained in Technical Reference RCIT.0004 "Splitter

Optical Splitters for Central Office/Headend

Optical Splitters for Central Office/Headend Optical splitters and couplers split or combine

Spec Sheet

The Fiber Splitter Panel is ideal for Passive Optical LAN 's and other singlemode applications requiring high performance splitting of

Contact Us

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