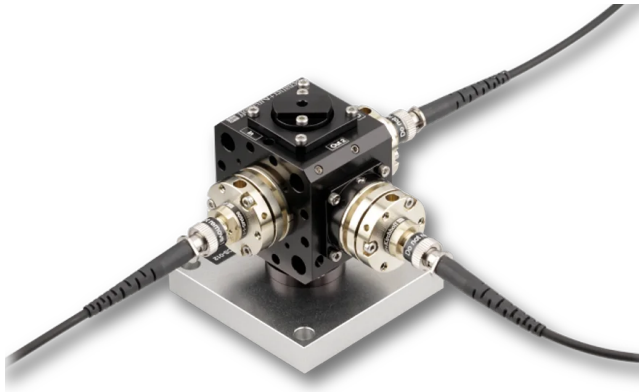


Polarizing Beam Splitter 1 → 2, 48-MCS-015

Compact, rugged and highly efficient opto-mechanical unit with fixed splitting ratio



FEATURES

Polarizing Beam Splitter 48-MCS-015

- Configuration 1 → 2
- Highly efficient coupling into polarization-maintaining fiber cables
- Separates s- from p-polarization
- Compact, rugged, transportable and sealed opto-mechanical unit
- Fully fiber-coupled
- Very high long-term stability, efficiency and reproducibility

DESCRIPTION

This fiber-coupled Polarizing Beam Splitter 1 → 2 is a compact opto-mechanical unit that splits the radiation guided in the two linear principle states of a polarization-maintaining fiber into 2 output fiber cables with a high efficiency.

Optical Setup

The input port is fiber-coupled to a [PM fiber cable](#).

The radiation is split using a polarizing beam splitter cube. In the deflected beam there is an polarizer that increases the polarization extinction ratio of the s-polarization.

Fiber Couplers

A fundamental component of a fiber-coupled Beam Splitters are the [Laser Beam Couplers](#), which are the inputs into the opto-mechanical unit collimating the input radiation and, finally, couples the radiation back into the common polarization-maintaining fiber cable. The stability of the total Polarizing Beam Splitter is determined by the [stability](#) of the Laser Beam Coupler.

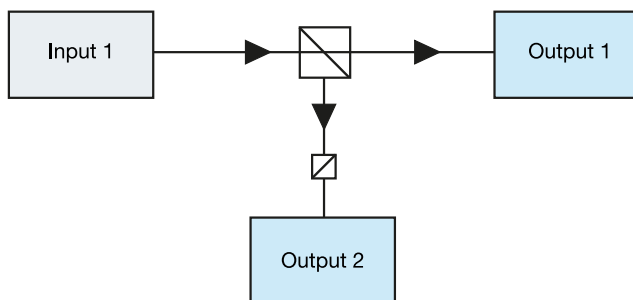
How to order

For a detailed quotation please additionally specify

- Wavelength (range)
- Receptacle type

If you need a system with fiber cables, please additionally specify

- Fiber type
- Cable lengths
- Connector types



TECHNICAL DATA

Polarizing Beam Splitter 1 → 2, 48-MCS-015

Order code	48-MCS-015
Configuration	1 → 2
Splitting Ratio	polarizing
Available wavelengths	400 - 1700 nm, monochromatic
Fiber type	polarization-maintaining
Connector type	FC APC (standard)
Cable lengths	Customer-specific
Transmission	≥ 75 % @ 780 nm
Polarization Extinction Ratio	≥ 23 dB @ 780 nm

DOWNLOADS



[980129090602.pdf \(Dimensional drawing\)](#)

RELATED PRODUCTS

FIBER PORT CLUSTER
1 → X

Compact, rugged and highly efficient opto-mechanical unit for splitting multiple ports

BEAM SPLITTER 1 → 2

Compact, rugged and highly efficient opto-mechanical unit with fixed splitting ratio

This is a printout of the page <https://sukhamburg.com/products/details/48-MCS-015> from 4/29/2024

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