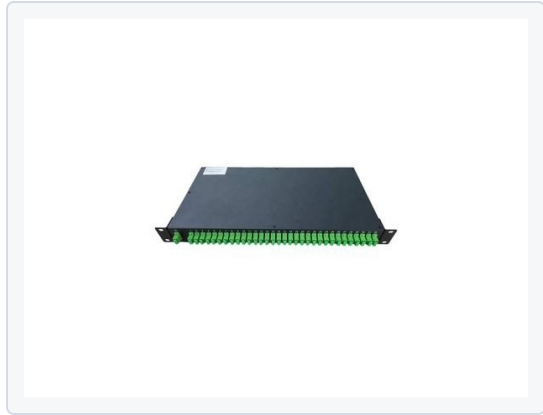


PASSIVE COMPONENTS

795nm PM Fiber Coupler Module

Polarization-maintaining tap coupler at 795 nm with an 18 dB extinction ratio.



Key Features

- Polarization-maintaining construction
- Matched to the 795 nm rubidium D1 line
- Extinction ratio ≥ 18 dB
- Asymmetric tap ratio for monitoring applications

Applications

- Atomic clocks and frequency references
- Optically pumped magnetometers
- Quantum sensing and cold atom systems
- Rubidium spectroscopy setups

Overview

A polarization-maintaining coupler module built specifically for 795 nm — the rubidium D1 line, which puts this squarely in atomic clock, magnetometer and quantum sensing territory.

Extinction ratio is 18 dB or better at 23 °C. The high insertion loss figure of 16.8 dB reflects a heavily asymmetric tap ratio rather than a lossy device: nearly all the light continues down the main path.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	795	nm	
Extinction Ratio	≥ 18	dB	23 °C
Insertion Loss	≤ 16.8	dB	23 °C, tap port

Order or request a quote

+1 (619) 500-4899 · sales@lightwitphotonics.com

lightwitphotonics.com

Monday–Friday, 8:00 AM – 6:00 PM Pacific

Lightwit Photonics Co., Ltd.

Datasheet issued 2026-09-06

Rev. controlled document

Specifications are subject to change without notice and do not constitute a warranty. Confirm all parameters with Lightwit Photonics sales before ordering.