

WAVELENGTH DIVISION MULTIPLEXING

1x2 780/1560nm WDM Coupler

Wide-split WDM coupler combining 780 nm and 1560 nm on one fiber.



Key Features

- Combines 780 nm and 1560 nm on one fiber
- Insertion loss ≤ 0.8 dB at 1560 nm
- Isolation ≥ 13 dB
- Passive — no power required

Applications

- Frequency doubling and comb systems
- Atomic and quantum sensing setups
- Dual-wavelength fiber sensing
- Laboratory optical combining

Overview

This coupler combines or separates two widely separated wavelengths — 780 nm and 1560 nm — on a single fiber. The large separation makes the filter straightforward and the isolation robust.

Insertion loss is 1.8 dB at 780 nm and 0.8 dB at 1560 nm, with isolation of 13 dB or better. It is commonly used where a visible or near-infrared source shares a fiber with a telecom-band signal, as in frequency comb and atomic sensing work.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	780 / 1560 ± 5	nm	
Insertion Loss	≤ 1.8	dB	780 nm
Insertion Loss	≤ 0.8	dB	1560 nm
Isolation	≥ 13	dB	

Order or request a quote

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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.