

WAVELENGTH DIVISION MULTIPLEXING

1x2 1480/1550nm WDM Coupler

Low-loss 1480/1550 nm WDM coupler with 0.3 dB insertion loss, for EDFA pump combining.



Key Features

- Insertion loss ≤ 0.3 dB
- Isolation ≥ 20 dB at center wavelength
- Matched to 1480 nm EDFA pump wavelengths
- Passive — no power required

Applications

- EDFA pump and signal combining at 1480 nm
- Fiber amplifier subassemblies
- Optical test setups requiring low-loss combining
- Two-wavelength fiber systems

Overview

A fused coupler that combines a 1480 nm pump with a 1550 nm signal, or separates them. Insertion loss of 0.3 dB is low enough that it costs almost nothing to place one in a signal path.

Isolation is 15 dB across the band and rises above 20 dB at the center wavelengths. The device is passive and needs no power.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Operating Wavelength	1480 / 1550 ± 5	nm	
Insertion Loss	≤ 0.3	dB	
Isolation	≥ 15	dB	≥ 20 dB at center wavelength

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.