

WAVELENGTH DIVISION MULTIPLEXING

CWDM Module

CWDM multiplexer covering 1270 nm to 1610 nm on 20 nm spacing, with 0.45 dB passband insertion loss.



Key Features

- Full CWDM grid, 1270 nm to 1610 nm on 20 nm spacing
- Passband insertion loss ≤ 0.45 dB
- Works with uncooled, low-cost transmitters
- Passive — no power required
- Available as a bare module or rack mounted

Applications

- Metro and access network capacity expansion
- Enterprise campus fiber links
- Mobile fronthaul and backhaul
- Cost-sensitive point-to-point fiber builds

Overview

CWDM puts up to eighteen channels on one fiber at 20 nm spacing, from 1270 nm to 1610 nm. The wide spacing is the point: transmitters can be uncooled, because a laser is free to drift several nanometers with temperature and still sit inside its passband. That makes CWDM substantially cheaper per channel than DWDM where the channel count fits.

Passband insertion loss is 0.45 dB or better. The module is passive and needs no power or control.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Channel Wavelength	1270 – 1610	nm	
Channel Spacing	20	nm	
Insertion Loss	≤ 0.45	dB	Passband

Order or request a quote

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