

WAVELENGTH DIVISION MULTIPLEXING

DWDM Multi-Channel Mux/Demux

8 and 16 channel DWDM multiplexer/demultiplexer on the ITU grid, with an optional express port.



Key Features

- 8 and 16 channel standard builds, other counts to order
- C band or L band on the ITU grid
- Optional pass-through (express) port for add/drop nodes
- Channel insertion loss 3.0 dB to 4.8 dB
- Passive — no power required

Applications

- DWDM capacity expansion on existing fiber
- Metro and access optical transport
- Optical add/drop nodes
- Data center interconnect over dark fiber

Overview

A thin-film filter multiplexer that combines individual DWDM channels onto one fiber and separates them again at the far end. Standard builds are 8 and 16 channel on the ITU grid, covering C band or L band from 186.6 THz to 196.1 THz; other counts are built to order.

An optional pass-through port carries wavelengths that are not being dropped at this node, which is what turns a plain mux into an add/drop building block. Channel insertion loss runs 3.0 dB to 4.8 dB, with the pass-through path slightly lower at 2.8 dB to 4.6 dB.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	8 or 16		Other counts customizable
Operating Wavelength	186.6 – 196.1	THz	C or L band, ITU grid
Channel Insertion Loss	3.0 – 4.8	dB	
Pass-Through Insertion Loss	2.8 – 4.6	dB	Optional express port

Order or request a quote

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