

100 GHz 8-Channel Dense Wavelength Division Multiplexer

DWDM-18 Series



Features

- 100 GHz Channel Spacing
- High Channel Isolation
- Low Insertion Loss
- Highly Stable & Reliable
- Epoxy-Free Optical Path
- Low Profile Packaging

Applications

- Dense WDM Systems
- CATV fiberoptic Links
- Fiber Amplifier System
- Fiberoptic Instruments
- Sensors

OPLINK dense wavelength division multiplexers (DWDM) are based on thin film filter technology and metal bonding micro optics packaging. This proven technology offers very wide channel bandwidth, flexible channel configuration, low insertion loss and high isolation. The flexibility in channel configuration allows capacity upgrade as your system grows. OPLINK DWDMs are modular units designed for easy upgrade. All OPLINK products are epoxy-free in the optical path. It is used in high power applications in DWDM systems. OPLINK DWDM devices are Bellcore GR -1221 qualification tested.

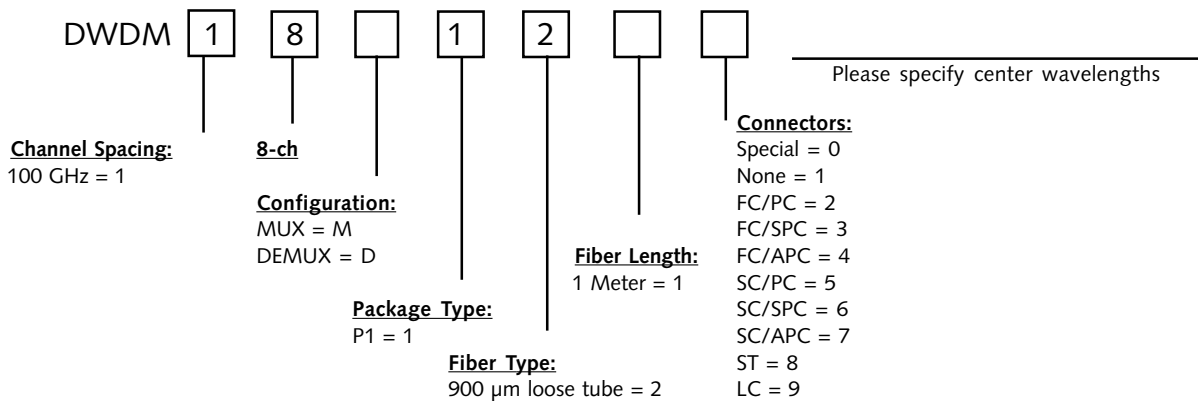
Performance Specifications

DWDM-18 Series	Multiplexer	De-Multiplexer
Center Wavelength (nm)	1550 nm Window, ITU 100 GHz Grid (8 channels)	
Center Wavelength Accuracy (nm)	$\leq \pm 0.1$	
Channel Spacing (GHz)	100 (0.8 nm)	
Channel Passband (-0.5 dB Bandwidth) (nm)	≥ 0.2	
Insertion Loss (dB)	≤ 5.0	
Insertion Loss uniformity (dB)	≤ 1.5	
Passband Ripple (dB)	≤ 1.0	
Adjacent Channel Isolation (dB)	≥ 10	≥ 25
Non-adjacent Channel Isolation (dB)	N/A	≥ 35
Insertion Loss Temperature Sensitivity (dB/°C)	≤ 0.005	
Wavelength Temperature Sensitivity(nm/°C)	≤ 0.001	
Return Loss (dB)	≥ 45	
Polarization Dependent Loss (PDL) (dB)	≤ 0.2	
Polarization Mode Dispersion (ps)	≤ 0.1	
Maximum Power Handling (mW)	300	
Maximum Tensile Load (N)	5	
Operating Temperature (°C)	0 to +65	
Storage Temperature (°C)	-40 to +85	
Package Dimension (mm)	P1: (L)125 x (W) 90 x (H) 8	

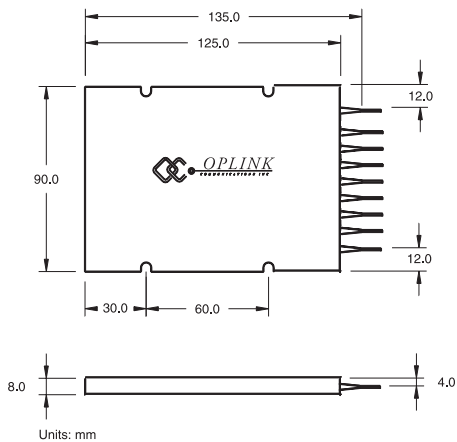
Values are referenced without connector loss.

Ordering Information

Standard Oplink Dense WDMs are specified below with appropriate part number options. If you require devices that are different than these standard devices, please contact our local Oplink Distributor, Sales Representative, or Factory Customer Service for ordering and price information.



Package Dimensions:



Spectra:

