



## 100GHz Dense Wavelength Division Multiplexer

100GHz Dense Wavelength Division Multiplexer(**mux/demux**) modules are available on ITU channel spacings of 200, 100 and 50GHz. They are based on thin film technology and metally packaged. These devices are configured by number of channels for any customer-specific channel plan and integration of taps and detectors for a complete dense wavelength division multiplexing (DWDM) solution. Those DWDM devices are Telcordia GR-1221 qualification tested. Those products are epoxy-free in the optical path.

### Features of our DWDM-1:

- Excellent reliability and environmental stability
- Low polarization dependent loss (PDL)
- Flat and wide passband
- High demux channel isolation
- Customizable with tap

### Applications for our DWDM-1:

- Long haul networks
- Metro networks
- Access/enterprise networks
- Dense channel plans (50Ghz, by interleaver)
- Test bench/systems

### Specifications:

Channel Number	unit	2	4	8	16	32	40	
Central Wavelength	nm	ITU-T Grid						
Passband@0.5dB	nm	>= 0.25						
Passband	nm	Alpha (ITU) +/-0.11						
Passband flatness	dB	<=0.5						
Insertion Loss (typ.)	dB	1.4	1.6	2.6	3.8	4.8	5.2	
Insertion loss (max.)	dB	1.8	2.0	3.2	4.5	5.5	6.0	
Channel Uniformity	dB	<=0.5			<=1.0			



Uniformity						
Adjacent Channel Isolation	dB	≥ 25				
No-adjacent Channel Isolation	dB	≥ 45				
Wavelength Thermal Stability	nm/°C	≤ 0.001				
Insertion Loss Thermal Stability	dB/°C	≤0.005	≤0.007	≤0.008		
Polarization Dependent Loss	dB	≤0.10	≤0.15	≤0.20		
Return Loss	dB	≥ 45				
Operation Temperature	°C	-5 ~ +65				
Storage Temperature	°C	-40~+85				
Package Dimensions	mm	88.9x50.8x8.3	120x80x13	130x87x13	150x115x13	150x110x19

**Ordering information:**

- Connectors: FC/UPC, FC/APC, SC/UPC, or SC/APC
- Number of channel: 4, 8, 16, 32 and 40 channels
- Cable diameter: 0.9mm
- Start Wavelength: ITU-T Grid
- Fiber length: 0.5m, customer request
- Application type: MUX/DEMUX

**We have unbeatable price for this product.**

- Price is updating, please make a request for our most recent price by calling (514) 334-4588 or by emailing [sales2@o-eland.com](mailto:sales2@o-eland.com)