High Isolation Dense Wavelength Division Multiplexer (DWDM)

Features

- High Demux Channel Isolation
- Low Polarization Dependent Loss
- Flat and Wide Passband
- High Reliability

Applications

- Quantum Computer System
- Metro DWDM System
- Test Instrument

Specifications

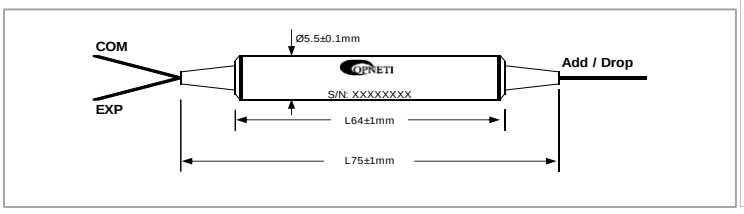
Parameters		Unit	100G, HDWDM1	100G, HDWDM2	200G, HDWDM1	200G, HDWDM2
Channel Wavelength CWL		nm	ITU Grid			
Center Wavelength Accuracy		nm	±0.05			
Channel Passband (@-0.5dB Bandwidth)		nm	≥0.22, typ 0.4		≥0.50, typ 0.8	
Insertion Loss [1]	Add / Drop CH	dB	≤1.5	≤1.8	≤1.5	≤1.8
	Express CH	dB	≤0.5			
Isolation [2]	Add / Drop CH	dB	≥80	≥120	≥80	≥120
	Express CH	dB	≥15			
Insertion Loss Temperature Sensitivity		dB/°C	≤0.003			
Wavelength Temperature Shifting		nm/°C	≤0.002			
Polarization Dependent Loss (PDL)		dB	≤0.30			
PMD		ps	≤0.10			
Directivity		dB	≥50			
Return Loss (RL)		dB	≥45			
Fiber Type			SMF-28e			
Fiber Length		m	1.0			
Power Handling		mW	≤300			
Operating Temperature		℃	-0 ~ +70			
Storage Temperature		℃	-40 ~ +85			
Dimensions		mm	φ5.5x64			

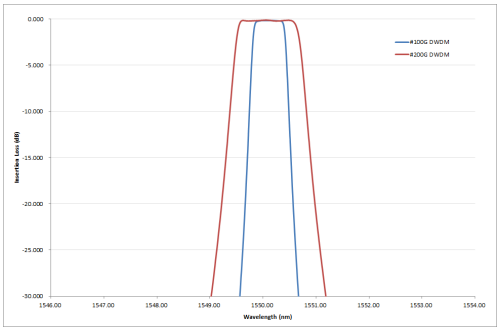
[1] Insertion Loss +0.2dB, Return Loss -5dB if add connector.

[2] Test at non-adjacent Channel.

* RoHS Compliant.

Package Dimensions





smaller size φ5.5x38mm available, higher IL at Passband (PB) and narrower PB in this package

Ordering Information

HDWDM1-
HDWDM2- ①-②②②-③③-④④④-⑤-⑥-⑦⑦-⑧⑧⑧⑧⑧⑧

①	Channel Space	1=100GHz; 2=200GHz;
②	Port Type	1x2; 1x1(no EXP port);
③	ITU Grid	21=21ch; 21*=21*ch; 22=22ch; 22*=22*ch; …; 72*=72*ch;
④	Pigtail Type	250=250μm Bare Fiber; 900=900μm Loose Tube;
⑤	Fiber Type	1=SMF-28e;
⑥	Fiber Length	1=1m;
⑦	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;
⑧	Package	5.5x64;