

200 GHz Dense Wavelength Division Multiplexer

Wavelength Division Multiplexers (WDMs)

Overview

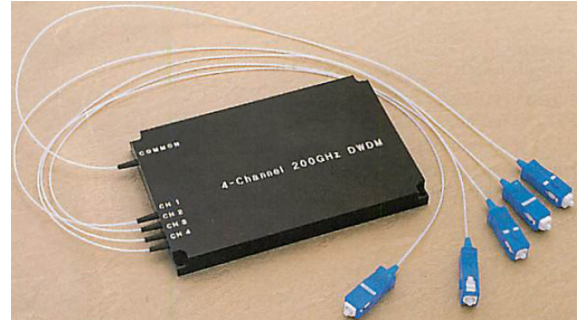
ARIA's Dense WDM modules are functional blocks that realize multiple channel multiplexing or demultiplexing.

A wide choice of DWDM modules developed from mature thin-film filter components is offered by ARIA.

ARIA DWDMs are epoxy-free in optical paths for greater reliability using proprietary packaging techniques.

It is thus used in high-power applications in DWDM.

Module is available on the ITU grid at channel spacings of 200 GHz.



Features

- Epoxy-Free Optical Path
- Low Insertion Loss
- High return loss
- ITU Standard
- 200GHz Channel Spacing

Applications

- Telecommunications
- Local Area Networks (LAN)
- Testing Instruments
- CATV Fiber Optical Link
- Fiber Optical Sensors sensors

Specifications

Parameter	Value
Central Wavelength (nm)	1550 nm Window, ITU 100GHz Grid (customer specifies) W1:1531.90,1533.47,1535.04,1536.61 W2:1538.19,1539.77,1541.35,1542.94 W3:1547.72,1549.32,1550.92,1552.53 W4:1554.14,1555.75,1557.37,1558.99
Channel Spacing	200 GHz (1.6 nm)
Channel Passband	0.5 nm (Bandwidth 0.5 dB) and 0.6 nm (Bandwidth 0.5 dB)
Insertion Loss	2.3 dB
Return Loss	45 dB
Channel Isolation	25 dB
Wavelength Temperature Sensitivity	0.004 nm
Polarization Dependant Loss	0.2 dB
Maximum Power Handling	250 mW
Operating Temperature	0 ~ 60 C
Storage Temperature	-40 ~ 80 C
Package Style	900um loose tube fiber pigtail
Packaging Dimensions	120mm x 80mm x 12mm

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Wavelength Division Multiplexers (WDMs)

Part Number

FDWDM- 

1 Channel Number
4 = 4 channels
8 = 8 channels
16 = 16 channels

4 Configuration
M = MUX
D = DEMUX

6 Tail Length
05 = .05 m
10 = 1.0 m

2 Channel Spacing
16 = 1.6 nm

5 Fiber
02 = 900u loose tube

7 Connectors
FC = FC/UPC
FA = FC/APC
SC = SC/UPC
SA = SC/APC
LC = LC/UPC
XX = Other

3 Band
1 = W1
2 = W2
3 = W3
4 = W4
XX = Others

Example: 4 channels, 1.6nm spacing, W2 band for Multiplexer DWDM, 900u loose tube SMF-28 fiber and terminated with FC connector, tail length 0.5m. Part Number: FWDWM-4-16-W2-M-02-05-FC