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AWG Multi/Demultiplexer

(Arrayed-Waveguide Grating Multi/Demultiplexer)

The arrayed-waveguide grating (AWG) wavelength multi/demultiplexer combines and splits optical signals of different wavelengths for use in WDM systems. The heart of the device, the AWG, consists of a number of arrayed channel waveguides that act together like a diffraction grating in a spectrometer. The grating offers high wavelength resolution, thus attaining narrow wavelength channel spacings such as 0.8nm in ITU channel allocation. Moreover, the multiplexer's extreme stability eliminates the negative effects caused by mechanical vibration; in addition, it delivers long-term reliability because it is composed of silica-based planar lightwave circuits.

MAIN FEATURES

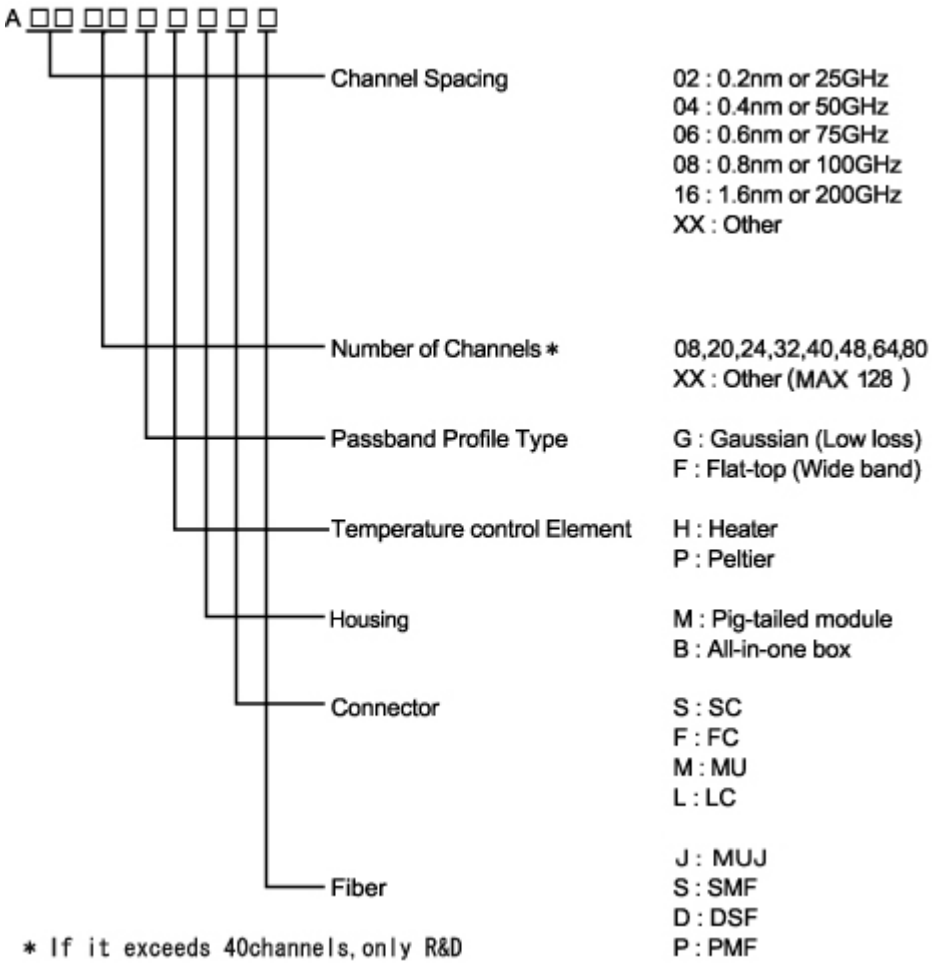
1)Wavelength Mux / DEMUX for DWDM based on planar lightwave circuitincluding arrayed waveguide grating(AWG).Many have already been used in practical systems all over the world. An attractive solution for DWDM.
* Tested to Telcordia GR-1209 and GR-1221

2)Features & Applications

Features
* Narrow and accurate channel spacing
* Large channel number
* Polarization insensitivity
* High stability and reliability

Applications
* WDM transmission
* WDM-based ADM
* Wavelength selective routing
* Optical signal processing

MODEL NUMBER



SPECIFICATIONS

Type	Standard	
Channel Spacing	25 / 50 / 100 / 200 GHz	
Channel Number	128(Max)*1	
Wavelength Accuracy	< + 0.02 nm (~ 50 GHz) , < + 0.04 nm (~ 100 GHz)	
Passband profile Type	Gaussian	Flat
Insertion Loss (~ 40ch)	< 3.0 dB	< 5.5 dB
1dB Bandwidth	> 25 % of Channel Spacing	> 50 % of Channel Spacing
3dB Bandwidth	> 50 % of Channel Spacing	> 75 % of Channel Spacing
Insertion Loss Uniformity	< 1.0 dB (~ 16ch) , < 1.5 dB (~ 40ch)	
Polarization Dependent Loss	< 0.4 dB	
Non-adjacent Channel Crosstalk	< -30 dB	
Return Loss	> 40 dB	
Operation Ambient Temperature	0 to 60 deg C	
Storage Ambient Temperature	-40 to 85 deg C	
Temperature Control Element	Heater / Pltier	
Housing	Pig-tailed Module (with no temp.controller), Automatic Temperature Controlled Module, All in one BOX(with temp.controller)	

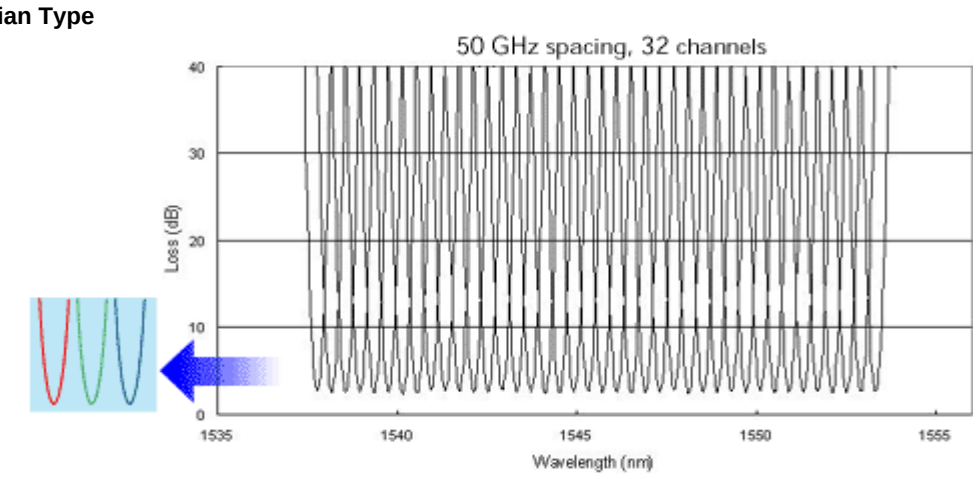
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Package Dimentions	Pig-tailed Module --- 65-130mm(W) x 45-65mm(D) x 12mm(H)

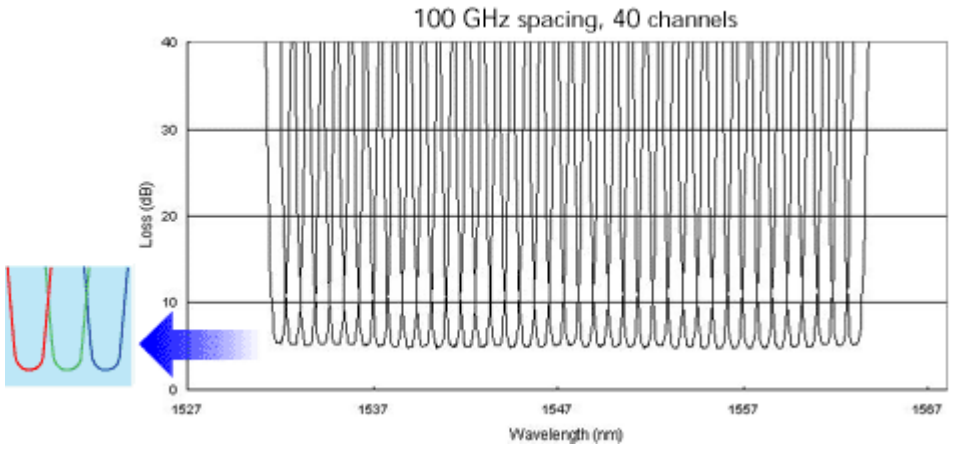
*1 If it exceeds 40 channels, Only R&D..

3)Sample Spectra

Gaussian Type



Flat Top Type



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INQUIRY FORM

If you would like to recieve further information of this product
(e.g. detailed product information, price information), please send this inquiry form to us.

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