

Wavelength MUX/DEMUX (AWG)

PPI Wavelength MUX/DEMUX (AWG)

The Arrayed Waveguide Grating's another name is AWG. Used in WDM-PON. This is one-to-one method of manual optical transmission product by high-speed transmission. The method is transmitting mass storage signal of image, telephone and data etc. used just a one line of optical by divided 16, 32 members at same time. And also, it used in the China and India where don't have enough optical communication facilities. And also, where requires long distance transmission etc.

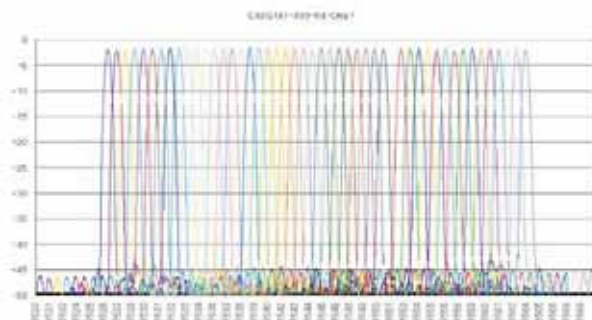
Features

- Compact package
- DWDM systems
- Low cost, Mass production
- Dual band for the upstream and downstream using a single chip

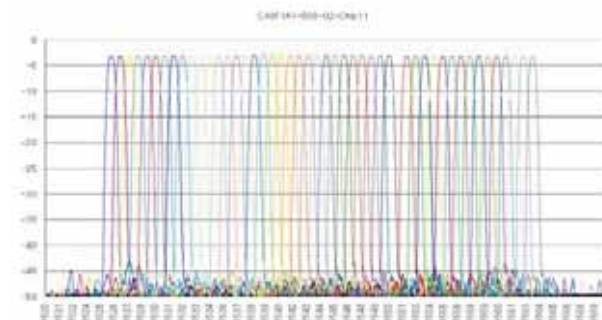


AWG type : 100GHz 1xN AWG($8 \leq N \leq 48$), 200GHz 1xN AWG($8 < N < 24$)

Parameter	Unit	100GHz Spacing		200GHz Spacing	
		Gaussian	Flat-Top	Gaussian	Flat-Top
Wavelength Accuracy	nm	± 0.05	± 0.05	± 0.07	± 0.07
1dB Bandwidth	nm	>0.20	>0.4	>0.4	>0.7
3dB Bandwidth	nm	>0.40	>0.6	>0.7	>1.0
Optical Insertion Loss	dB	3.7	4.5	3.7	4.5
Loss Uniformity	dB	1.0	1.0	0.8	0.8
Adjacent Channel Crosstalk	dB	27	27	28	28
Non-Adjacent Channel Crosstalk	dB	30	30	30	30
Optical Return Loss	dB	>40	>40	>40	>40
PDL	dB	<0.5	<0.5	<0.5	<0.5
Dimension (LxWx H)	mm	120 x 70 x 12.3			
Operating Temperature	$^{\circ}\text{C}$	C-temp : 20 ~ 75 $^{\circ}\text{C}$ / i-temp : -40 ~ 85 $^{\circ}\text{C}$			



Gaussian



Flat-top