

# 40/48-CH 100G Athermal AWG



## Features

- Established silica-on-silicon technology
- Extremely low crosstalk
- Low insertion loss
- Low PDL
- Low chromatic dispersion
- Telcordia GR-1221-CORE qualified

## Applications

- DWDM transmission
- Wavelength routing
- Optical add/drop multiplexing

## Performance Specifications

Parameter	Specification		
	Min	Typ	Max
Number of Channels		40/48	
Number Channel Spacing (GHz)		100	
Cha. Center Wavelength (nm)		C-band	
Clear Channel Passband (nm)		±0.1	
Wavelength Stability (nm)		±0.05	
-1dB Channel Bandwidth (nm)	0.36		
-3dB Channel Bandwidth (nm)	0.51		
Optical Insertion Loss at ITU Grid (dB)		4.5	6.0
Adjacent Channel Isolation (dB)	25		
Non-Adjacent Channel Isolation (dB)	30		
Total Channel Isolation (dB)	24		
Insertion Loss Uniformity (dB)			1.0
Directivity (Max Only) (dB)	45		
Insertion Loss Ripple (dB)			0.5
Optical Return Loss (dB)	40		
Polarization Dependent Loss in Clear Channel Band (dB)		0.3	0.5
Polarization Mode Dispersion (ps)			0.5
Maximum Optical Power (dBm)			23
MUX / DEMUX Input / Output Monitoring Range (dBm)	-35		+23
Operating Temperature (°C)	-5~+65 ( -40~+85 optional )		
Operating Humidity (%RH)	5		95
Storage Temperature (°C)	-40		+85
Storage Humidity (%RH)	5		95
Package Size (mm)	L120 x W70 x H10 or 19" 1U Rackmount		
Size between Screws (mm)	110 x 60		

IL Represents the worst case over a +/-0.1nm window around the ITU wavelength  
PDL was measured on average polarization over a +/-0.1nm window around the ITU wavelength  
Specifications may change without notice.

## Ordering Information

AWG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Band	Number of Channels	Spacing	1st Channel	Filter Shape	Package	Fiber Length	Connector
	C=C-Band L=L-Band D=C+L-Band S=Specify	16=16 Channels 32=32 Channels 40=40 Channels 48=48 Channels S=Specify	1=100G 2=200G 5=50G S=Specify	C60=C60 H59=H59 C59=C59 H58=H58 S=Specify	F=Flat Top	1=ABS Box Module 2=Rackmount S=Specify	1=1m 2=2m S=Specify	0=None 1=FC/APC 2=FC/UPC 3=SC/APC 4=SC/UPC 5=LC/APC 6=LC/UPC 7=ST S=Specify