

Specifications of C-band 16CH – 48CH 100GHz Athermal AWG Module

Athermal modules are packaged using athermalization techniques with no electrical power and no temperature control units, can perform MUX/DeMUX functions.

1. Product Information

- Description : C-band 16Ch-48Ch 100GHz Athermal AWG
 - Specification Revision : Version 1.06
 - Issue Date : December 20th, 2013
 - Product Application :
- The specification serve for C-Band AWG Flat-Top Mux/DeMux in DWDM System.

2. Optical Specifications

All specifications guaranteed over the operating temperature range.

Parameter	Specifications		Unit	Comment
	Min	Max		
Input Channel	1			
Output Channel	16,32,40,48			16,24,32,40,48 channels available
Channel Spacing	100		GHz	
Reference Passband	-12.5	12.5	GHz	
Wavelength Accuracy	-50	50	pm	Relative to ITU Grid
1dB Bandwidth	0.4		nm	
3dB Bandwidth	0.6		nm	
I.L(dB)		<6.0	dB	Worst case in ITU passband
I.L UNI.		1	dB	
Ripple		0.7	dB	Loss variation in ITU passband
PDL		0.5	dB	Max. value in ITU passband
Adjacent Crosstalk	25		dB	Worst case in ITU passband
Non-Adjacent Crosstalk	30		dB	Worst case in ITU passband
Total Crosstalk	22		dB	Cumulative crosstalk of all other channels



Return Loss	40		dB	
Maximum Continuous Optical Power		250	mW	Maximum input optical power
Chromatic Dispersion(CD)	-20	+20	ps/nm	
PMD		0.5	ps	

3. TEMPERATURE CONDITIONS

Parameter	Specification	Unit	Note
Operating Temperature Range	-30 ~ +85	°C	
Storage Temperature Range	-40 ~ +85	°C	

4. PIGTAIL AND CONNECTOR

Parameter	Specification	Unit	Note
Pigtail Type	SMF28 with 900um Loose Tube Fiber		
Input Common Fiber	1000±50	mm	
Ribbon Fiber	1000±50	mm	2X8 or 4X12 Ribbon Fiber
Fanout Fiber	500±50	mm	
Connector Type	LC/UPC		

Fiber length and Connector Type is available to change by customer's request.