

oW420x Series

Multiplexing and De-multiplexing Card



eWAVE offer network multiplexing filters to address a wide variety of network capacity and site wavelength add/drop requirements. These modules have both the multiplexer and de-multiplexer contained within a single card. It's an integrated component within eWAVE WDM platform to scale network with WDM optical backplane. Also, the multiplex/de-multiplex optical signals are typically transmitted in unidirectional application, yet bidirectional application is acceptable as well. As a result, custom multiplexer module is designed and delivered with no additional lead time.

Generic Specifications:

Module Type	oW4202-xx	oW4204-xx	oW4208-xx
Number of Chanel	2	4	8
Features	2-core or 1-core CWDM or DWDM Point to Point or Ring Scenario		
Central wavelength (nm)	1270 ~ 1610		
Connect device	eWAVE4107, eWAVE4107DiR, eWAVE4214		
Fiber type	Single Mode Fiber		
Connectors	SC/LC		
Dimensions	Single slot		

Keynotes:

xx specify type of application scenario as below :
 C indicates CWDM;
 D indicates DWDM;
 B indicates Bi-directional single core fiber;
 R indicates Ring

MULTIPLEXING & DE-MULTIPLEXING MODULE

- oWAVE4202-xx
- oWAVE4204-xx
- oWAVE4208-xx

HARDWARE FEATURES

- CWDM & DWDM Support
- Modular & Scalable Architecture
- Plug and Play
- Flexibility
- Hot Pluggable



Typical specification of oW4208D-S1

PARAMETER		SPECIFICATION			UNITS	NOTE
		MIN.	TYP.	MAX.		
Channel spacing		100			GHz	
Channel number		8				
Port number		20				
Pass band width		$\lambda_c \pm 0.11$			nm	
OSC 1511 wavelength range		1504.5 ~ 1517.5			nm	
Insertion Loss	Add/Drop		Mux	Demux	dB	
		CH21	1.4	3.5		
		CH22	1.7	3.2		
		CH23	2.0	2.9		
		CH24	2.3	2.6		
		CH25	2.6	2.3		
		CH26	2.9	2.0		
		CH27	3.2	1.7		
	CH28	3.5	1.4			
	1511			0.8	dB	
Isolation	Adjacent Channel	30			dB	
	Non-adjacent Channel	45			dB	
OSC 1511 Isolation		30			dB	@1528 ~ 1568
Pass band ripple				0.5	dB	
Insertion loss thermal stability				0.005	dB/°C	
Wavelength thermal stability				0.002	nm/°C	
Directivity		55			dB	
PDL				0.15	dB	
PMD				0.10	Ps	
Return loss		45			dB	
Optical operating power				300	mW	

* S1: Sub-band 1