oWAVE440x Series

WDM Platform's Band Filter Card

SMALL SCALE

HIGH DENSITY

DWDM/CWDM

BAND FILTER

- Up to 5 sub-band
- Integrated Slot
- Stacking C/DWDM Platform

HARDWARE FEATURE

- 5 x Wavelength Band
- 1 x Line Aggregation Band

eWAVE's Band Filter Card is the industry's new designed type of optical wavelength stacking application. It allows the wavelength to be divided into several sub-bands. And hence, numbers of WDM equipment can be stacked together for the ease of network expansion purpose; the network capacity can be enhanced up to 400Gbps of eWAVE4214 or eWAVE4107 product.

In addition to that, band filter also allows add/drop application. Add/drop wavelength can be configured as one sub-band, and go-through wavelength are configured as another sub-band. Figure 1 below summarizes the functionality of a band filter.

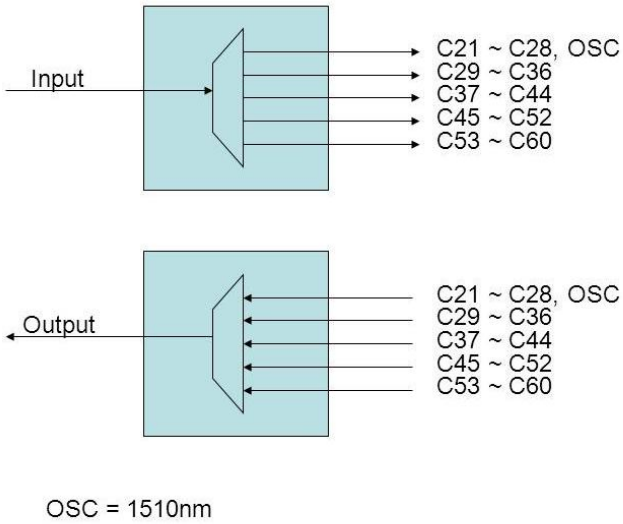

Figure 1: Block diagram of band filter card

Technical Specification: (typical spec of oW4405D)

PARAMETER		SPECIFICATION			UNITS	NOTE
		MIN.	TYP.	MAX.		
Channel spacing		800			GHz	
Channel number		5				
Port number		12				
Pass band width		CH21-CH28		1554.83-1560.72	nm	
		CH29-CH36		1548.40-1554.24		
		CH37-CH44		1542.03-1547.83		
		CH45-CH52		1535.71-1541.46		
		CH53-CH60		1529.44-1534.93		
OSC 1511 wavelength range		1504.5 ~ 1517.5			nm	
Insertion loss				2.4	dB	
Channel uniformity				0.8	dB	
Isolation	Adjacent Channel	14			dB	Except CH21-CH28 &OSC port
	Non-adjacent Channel	30			dB	
CH21-CH28 &OSC port Isolation		12			dB	@CH29-CH60
Pass band ripple				0.5	dB	
Insertion loss thermal stability				0.005	dB/℃	
Wavelength thermal stability				0.002	nm/℃	
Directivity		55			dB	
PDL				0.15	dB	
PMD				0.10	Ps	
Return loss		45			dB	
Optical operating power				300	mW	

Absolute Maximum Rating

PARAMETER	SPECIFICATION	UNITS	NOTE
Operation Temperature	-5~ +65	°C	
Operation Humidity	5 to 90%RH Not condensed	%RH	
Storage Temperature	-40 ~ +85	°C	
Storage Humidity	0 to 95%RH Not condensed	%RH	

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