



EKINOPS CM_OADM-LB/CM_OM-LB

Cassette Mounted Passive Large-band Filters

DATA SHEET 12 2022

KEY FEATURES& BENEFITS

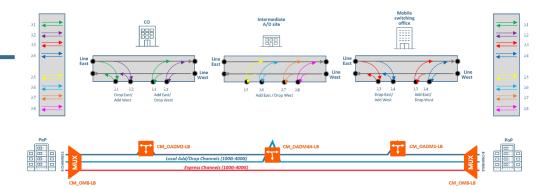
- Provides wider bandwidth than standard filters
- Accommodates high-speed coherent channels up to 400G
- Available on both terminal optical multiplexer (OM) and optical add/drop (OADM) filters
- Supports bi-directional traffic
- Up to 4 modules hosted in 1RU
- Completely passive, no power or maintenance required
- High temperature operation

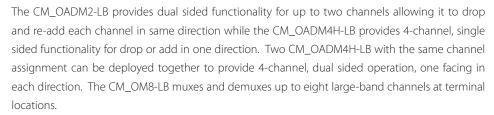
APPLICATIONS

- Terminal (OM) and inline optical add/drop (OADM) sites
- Coherent networks up to 400G
- Any filter location where ROADM is not required

OVERVIEW

Coherent technology made high-speed optical transport possible above 100 gigabits per second. The increasing capacities at which these channels operate require higher baud rates to maintain performance. Higher baud rates, in turn, require wider wavelengths than what a standard filter—whether an optical terminal multiplexer (OM) or optical add/drop multiplexer (OADM)—is able to accommodate. While the most common approach is to use a reconfigurable OADM (ROADM) with flat top filtering, ROADMs are more expensive and many locations simply do not require a ROADM because traffic doesn't change or grow.





These modules are ideal for smaller sites with fixed traffic requirements where the full functionality of a reconfigurable OADM (*ROADM*) is not necessary. With up to four modules hosted in a single 1RU enclosure, these units provide a high density, low cost solution in minimal space.







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SPECIFICATIONS

· PHYSICAL SPECIFICATIONS

0°C to +50°C / +32°F to +122°F Operating temperature -20°C to +85°C / -4°F to +185°F Storage temperature LC/PC

Optical connectors

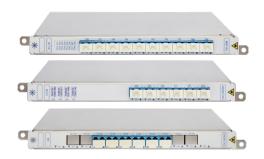
· OPTICAL CHARACTERISTICS

Dual Sided, Dual Fiber OADMs		CM_OADM2-LB
Wavelength Range (nm)		1528.7 to 1561.5
Channel Spacing (GHz)		100
Number of Channels		2
Channel Center Wavelength		ITU-T, 100GHz
Bandwidth @3dB		>ITU-T +/- 35GHz
	IN > Drop 1	≤ 1.5
	Add1 > OUT	≤ 1.2
	IN > Drop 2	≤ 1.2
Insertion Loss (db)	Add2 > OUT	1.5
	Combined IL	≤3.0
	COM IN > COM OUT (East Line—West LineExpress	≤ 1.8
Pass band Ripple (dB)		≤ 0.5
laalatiaa (dD)	Adjacent Channel	≥ 25
Isolation (dB)	Non-Adjacent Channel	≥ 40
Return Loss (dB)		≥ 45
PDL (dB)		≤ 0.2
PMD. (ps)		≤ 0.2
Power Handling (<i>mW</i>)		300

Single Sided, Dual Fiber OADMs		CM_OADM4H-LB
Wavelength Range (nm)		1528.7 to 1561.5
Channel Spacing (GHz)		100
Number of Channels		4
Channel Center Wavelength		ITU-T, 100GHz
Bandwidth @3dB		>ITU-T +/- 35GHz
Insertion Loss (db)	In to Drop / Add to Out	≤ 1.8
	In to Exp / Exp to Out	≤ 1.5
	Combined IL	≤ 2.8
Pass band Ripple (dB)		≤ 0.5
Isolation (dB)	Adjacent Channel	≥ 25
	Non-Adjacent Channel	≥ 40
Return Loss (dB)		≥ 45
PDL (dB)		≤ 0.2
PMD. (ps)		≤ 0.2
Power Handling (mW)		300









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SPECIFICATIONS



Optical Multiplexer (OM)		CM_OM8-B1-LB
Wavelength Range (nm)		1528.7 to 1561.5
Channel Spacing (GHz)		100
Number of Channels		8
Bandwidth @3dB (GHz)		ITU +/- 35
Insertion Loss (db)	COM to Ports 1-8	≤ 3.5
	COM to Upgrade	≤ 0.8
	Combined IL	≤ 0.5
Pass band Ripple (dB)		
Isolation (dB)	Adjacent Channel	≥ 25
	Non-Adjacent Channel	≥ 40
Return Loss (dB)		≥ 45
PDL (dB)		≤ 0.25

ORDERING INFORMATION

CASSETTE MOUNT (CM)

PRODUCT CODE	DESCRIPTION
CM_OADM2-LB	Cassette mounted 2 channel dual sided wide band add & drop unit
CM_OADM4H-LB	Cassette mounted 4 channel single sided wide band add & drop unit
CM_OM8-B1-LB	Cassette mounted 8 channel wide band MUX/DMUX, with upgrade ports; CH44-51

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PRODUCT CODE	DESCRIPTION
RM_OPR	Optical Passive Rack

CONTACT

