

DESCRIPTION

Jabil Photonics CWDM optical filters have low insertion loss and high isolation.

Different filters are available for the add/drop of 1, 2, 4, 8, 16 channels (in any combination as per customer requirements). In addition it is possible to monitor the signal at the ingress or at the egress of the line system, and to provide additional features like the possibility to add/drop a bandwidth or to manage at the same time CWDM and DWDM wavelengths.

The filter can be packaged in an LGX compatible module but also customization is possible. It is designed to be used in extreme temperature environments within a temperature range of -40° to $+85^{\circ}$ C.

Standard version Standard version is the two fiber pair (one fibers for RX and one fiber for TX), with LC/APC connectors, monitoring port and upgrade port. Customized versions are available.



KEY FEATURES

MUX/DMUX/OADM

Low insertion loss and high isolation

High stability and high reliability

Epoxy-free optical path

Fully customized to customer requirements

Telcordia GR-1209, GR-1221-CORE qualified

Mini-cassette, Fiber Tray, LGX & Rackmount

APPLICATIONS

Enterprise networking

Access networks

CATV fiber optic links

COMPLIANCES

Compliant with Telcordia GR-1221-CORE

Compliant with RoHS-6





ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Тур.	Max.	Unit
Operation Temperature	-40		+85	°C
Storage Temperature	-40		+85	°C
Operation Humidity*	5		95	%
Storage Humidity	5		95	%

(*) not condensing

OPTICAL SPECIFICATIONS

Parameter	Value	Note	Unit
Operating Wavelength	ITU-T Grid		
Channel Pass Band@0.5dB	>14		nm
Passband	ITU-T +/- 6.5		nm
Passband flatness	≤ 0.5		dB
Insertion Loss (Max)	3.5		dB
Adjacent Channel Isolation	≥ 30		dB
Non-Adjacent Channel Isolation	≥ 45		dB
Wavelength thermal stability	≤ 0.002		nm/°C
IL thermal stability	≤ 0.007		dB/°C
Return Loss	≥ 45		dB
PMD	≤ 0.15		ps
PDL	≤ 0.25		dB
Directivity	≥ 50		dB



ORDERING INFORMATION

WDM	ТҮРЕ	#CHAN	NELS GRID	FORM	I TECHNOLO	GY CH PLAN	CONNECTOR
CWDM	MUX/DEMU	JX 8CH			TFF		
SINGLE / DU	JAL FIBER	EXPRESS	UPGRADE	MON	FIBE LENGTH	FIBER DIA	OTHERS
DUAL			UPG	TXRXMON			
UPG port (see MUX: unidire DEMUX: unid 3. #Channels: - Number of a 4. Grid: (applic 50GHZ	Coarse WDM X it can also act as e dedicated field) ctional application irectional applicati add/dropped chanr able only to D -100GH	with only MUX ft ion with only DEM nel 2CH,4CH,8CH , WDM) Z	INCTION IUX function 16CH,40CH etc.		additional reque 10. EXPRESS: it filtering the c CWDM and EXP: it indicates 11. UPGRADE: i (not droppe OADM confi; of expandin EXP: it indicates 12. MONITORIN	sts: indicates if addition hannels. This typica DWDM network is that EXPRESS port (or po t indicates that the d) is sent to an UPG gurations and to Ter g the number of ter that EXPRESS port (or po that EXPRESS port (or po	ort pair) is requested. rest of the channels iRADE port. This applies minal MUX with the poss minated channels ort pair) is requested. monitoring port is request
HDLGX2) 6. Technology TFF (typically	:		1RU, LGX 2RU,	HDLGX1,	RXMON: monito TXMON: monito TXRXMON: pair (ingress line) ar	oring associated to the Egr of monitoring ports asso nd to Egress COM interfac	ress COM interface (ingress line) ress COM interface (egress line) ciated to both the Ingress COM i
	the first and the la els to be managed		of consecutive cha	nnels or the	13. Fiber Length 0.5M : 50cm 1M : 1 meter 2M : 2 meter	:	
8. Connector: <u>LCA</u> (LC/APC) <u>LCU</u> (LC/UPC <u>SCU</u> (SC/UPC) -FCU (FC :) -FCA (FC	C/UPC)			14. Fiber Diamer 900um 250um 1.2mm 2mm 3mm	er:	
each port, a		are used for TX ar				also possible to spec	cify other characteristics

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For additional information, visit jabil.com/photonics



CHANNEL PLAN

Wavelength	Channel Number
1271	27
1291	29
1311	31
1331	33
1351	35
1371	37
1391	39
1411	41
1431	43
1451	45
1471	47
1491	49
1511	51
1531	53
1551	55
1571	57
1591	59
1611	61