

DSMD DWDM Mux/Demux 40-Channel 100GHz

The DWDM 40-Channel is based on AAWG (Athermal Arrayed Waveguide Grating) technology.

It is manufactured and supplied in a range of Open DWDM products for the construction of simple Open DWDM networks, with the option of any combination of single

components and manufacturers.

Our DWDM Mux/Demux is available in the range of Channels 20 - 59 as standard. It can also be supplied with another range of channels in the DWDM C band (e.g. 21 - 60) and other types of connectors.



Features

- 100GHz C band DWDM Mux/Demux
- AAWG – Athermal Arrayed Waveguide Grating
- 40 channels (standard 20 – 59)
- Flat-top transmission filters
- Very low insertion loss
- Low adjacent and non-adjacent crosstalk



Specifikace

Parameters	Units	Specifications
Dimension	mm	Mux/Demux 2U 19"box (88 x 435 x 205)
	mm	Mux/Demux 1U 19"box (44 x 435 x 285)
Operating Temperature	°C	-20 to +70°C
Humidity		noncondensing 0 to 90% R.H.
Optical Connectors		SC/APC, LC/UPC, LC/APC, E2000/APC

Optical Specifications

Parameters	Units	Specifications		
		Min	Typical	Max
Number of channels			40	
Channel Spacing	Ghz		100	
Nominal Center Frequencies	Thz	192.0		195.9
Reference Passband	To ITU nm	-0.05		0.05
Reference Passband	To ITU nm	-0.1		0.1
Reference Passband	To ITU GHz	-12.5		12.5
Filter Bandwidth @-1.0 dB	nm	0.40		
Filter Bandwidth @-3.0 dB	nm	0.60		
Filter Bandwidth @-20.0 dB	nm			1.20
Adjacent Channel Crosstalk	dB			-27
Non-Adjacent Channel Crosstalk	dB			-30
Total Integrated Crosstalk	dB			-24
Insertion Loss @ Center wavelength	dB			4.0
Insertion Loss @ within Passband	dB			4.5
I. L. uniformity@ Center wavelength	dB			1.2
Polarization Dependent Loss	dB			0.5
Polarization Mode Dispersion	ps			0.5
Return Loss (all ports)	dB	40		
Chromatic Dispersion	Ps/nm	-10		+10
Monitor Port 1% Output Power – I.L.	dB			21.3
Monitor port Add Insertion Loss	dB			0.5

ORDERING CODES

DSMD: DWDM Mux/ Demux 40-Channel 100GHz

DS	MD	-	✓	-	✓	
						Configuration
			SC1N			20xSCAD + 1xSCA
			SC1M			21xSCAD + 1xSCA for monitor port
			SC2N			41xSCAD
			SC2M			42xSCAD including monitor port
			LC2N			20xLCQ + 1xLCD
			LC2M			21xLCQ + 1xLCD for monitor port
						Channels
					S	20-59
					U	21-60
					??	Specify
Example						
DS	MD	-	SC2M	-	S	INTELDAT DWDM 40 channel AAWG 100G Mux+Demux, 2 fiber, 42xSCAD, monitor port, channels 20-59