

# Low Loss CWDM 2ch,4ch, 8ch,16ch

V.3.4

## Description

Fibrefab's Low Loss Coarse Wavelength Division Multiplexer (CWDM) module are cascaded with 1×2 CWDM components. The module features wide pass band, low insertion loss, high channel isolation, high stability and reliability.

## Features

- ▶ **Wide pass band**
- ▶ **High isolation**
- ▶ **Low insertion loss**
- ▶ **High stability and reliability**

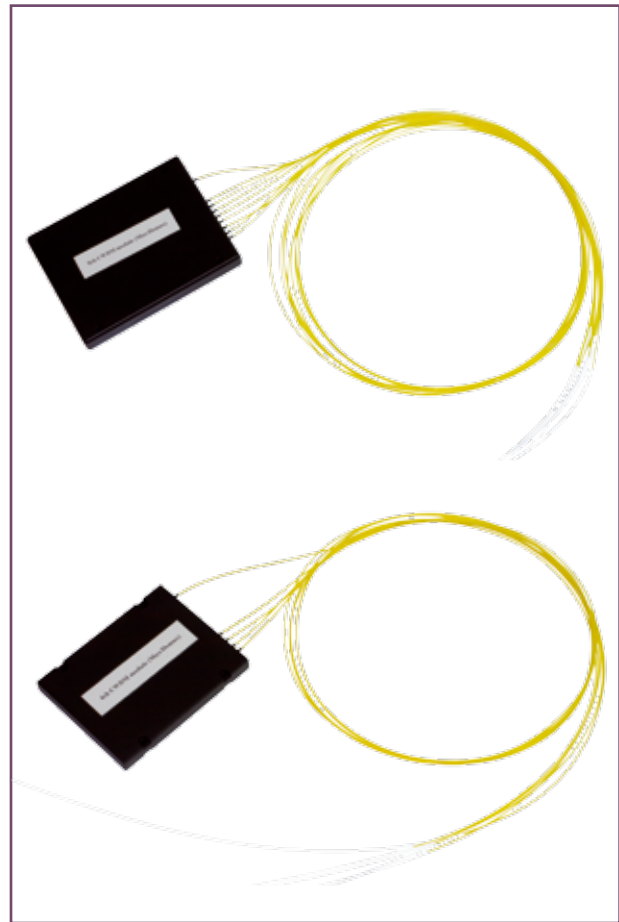
## Applications

- ▶ **CWDM systems**

## Technical Specification

Parameter	2 Channels	4 Channels	8 Channels	16 Channels
Central wavelength (nm)	1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411,1431 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611			
Insertion loss (dB)	≤0.6	≤1.8	≤2.5	≤3.5
Channel space (nm)	20			
Channel bandwidth (nm)	$\lambda_c \pm 6.5$			
Channel flatness (dB)	≤0.4			
Channel uniformity (dB)	≤1.0			
Isolation (dB)	Demux adjacent channel		≥30	
	Demux non-adjacent channel		≥40	
	Mux or Reflection channel		≥15	
Directivity (dB)	≥55			
Return loss (dB)	≥50			
PDL (dB)	≤0.15			
PMD (ps)	≤0.1			
Wavelength thermal stability (nm/ °C)	≤0.003			
Insertion loss thermal stability (dB/ °C)	≤0.005			
Power handling (mW)	≤500			
Operating temperature (°C)	0 ~ +70			
Storage temperature (°C)	-40 ~ +85			
Dimensions (mm)	φ 5.5x34	100×80×10	125×96×16	141×115×18

\*The above specification is without connectors



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com

# Low Loss CWDM 2ch, 4ch, 8ch, 16ch

V.3.4

## Part Number Generator

Configuration		Start Wavelength		End Wavelength		Package Style	Cable Type		Input Connector		Output Connector		Lead Length Input		Lead Length Output	
<b>CWDM</b>																
2	2 channel	27	1271nm	27	1271nm	A	0	250µm	A	None	A	None	1	1m	1	1m
4	4 channel	29	1291nm	29	1291nm		1	900µm	B	E2000/UPC	B	E2000/UPC	2	1.5m	2	1.5m
8	8 channel	31	1311nm	31	1311nm		2	2mm	C	E2000/APC	C	E2000/APC	3	2m	3	2m
16	16 channel	33	1331nm	33	1331nm		3	3mm	D	FC/UPC	D	FC/UPC	4	2.5m	4	2.5m
		35	1351nm	35	1351nm				E	FC/APC	E	FC/APC	5	3m	5	3m
		37	1371nm	37	1371nm				F	LC/UPC	F	LC/UPC				
		43	1431nm	43	1431nm				G	LC/APC	G	LC/APC				
		45	1451nm	45	1451nm				H	MU/APC	H	MU/APC				
		47	1471nm	47	1471nm				I	MU/UPC	I	MU/UPC				
		49	1491nm	49	1491nm				J	SC/UPC	J	SC/UPC				
		51	1511nm	51	1511nm				K	SC/APC	K	SC/APC				
		53	1531nm	53	1531nm				L	ST/UPC	L	ST/UPC				
		55	1551nm	55	1551nm											
		57	1571nm	57	1571nm											
		59	1591nm	59	1591nm											
		61	1611nm	61	1611nm											

## Example Part Number

**CWDM** 8 35 53 A 1 G G 1 1

This part number generator has created an:

8 channel to CWDM channel spacing 20nm from 1351 to 1531 with 900µm, 1 metre LC pigtaills



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com