

DSW1 Passive CWDM Mux/Demux Device

Coarse Wave Division Multiplexing (CWDM) Multiplexer/Demultiplexer (MUX/DEMUX) modules support ITU-T G.694.2 wavelengths between 1271 nm to 1611 nm in 20 nm channel spacing. They are protocol and rate transparent, allowing different services up to 100 Gbps to be transported across the same fiber link.

INTELDAT passive CWDM modules are available in 4, 8, 16 and 18-channel (wavelength) models, supporting a variety of wavelength combinations and port configurations. Standard installation modules are available as extended LGX boxes, or for 19" 1U rack mount.



Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy-free optical path

Applications

- Telecommunication
- Metropolitan networks
- Mobile networks
- Datacenters
- WDM network

Due to the low insertion loss needed in many cases, we can also add, as an option, a 'skip component' in a CWDM Mux/Demux module to reduce the loss. Additional expansion ports can be added for future extensions.

Specifications

Parameter	4 Channel	8 Channel	16 Channel
	Mux/Demux	Mux/Demux	Mux/Demux
Nominal Channel Wavelength (nm)	1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611		
Center wavelength Accuracy (nm)	±0.5		
Channel Spacing (nm)	20		
Channel Passband (@-0.5 dB bandwidth) (nm)	+/-7.5/+/-6.5		
Insertion Loss (dB)	≤1.5	≤2.5	≤1.5
Channel Uniformity (dB)	≤0.6	≤1.0	≤1.5
Channel Ripple (dB)	0.30		
Isolation Adjacent (dB)	>30		
Return Loss (dB)	>45		
Maximum Power Handling (mW)	300		
Operating Temperature (°C)	-40~+85		
Storage Temperature (°C)	-40~+85		
Package - LGX box prolonged (mm)	L129 x W29 x D155.5		
Package - 19" 1U Rackmount (mm)	L440 x H44.5 x D230		

ORDERING CODES

DSW1: Passive CWDM Mux/Demux Device

DS	W1	-	✓	-	✓	-	✓	-	✓	-	✓	-	✓	-	✓
															Configuration
M															Mux
D															Demux
MD															Mux + Demux
O															OADM
															Number of Channels
04															4-Channel
08															8-Channel
16															16-Channel
18															18-Channel
															First Channel
27															1271 nm
29															1291 nm
47															1471 nm
49															1691 nm
															Connectors
SC															SC/PC
SCA															SC/APC
FC															FC/PC
FCA															FC/APC
ST															ST
LC															LC/PC
LCA															LC/APC
E2A															E2000/APC
															Expansion Port
X															Yes
N															No
															Installation
E															19" 1U Rack
F															Extended LGX Box
X															Special Request

Example

DS	W1	-	M	-	08	-	47	-	SCA	-	N	-	E	INTELDAT CWDM MUX, 8 channel, 1471 nm - 1611 nm, SC/APC connectors, no expansion port, 19" 1U rack	
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