MPS-2800

Coarse Wavelength Division Multiplexer

Enabling the simultaneous transmission of up to eight wavelengths over the same common fiber

The MPS-2800 Singlemode Coarse Wavelength Division Multiplexer (CWDM) provides a cost effective solution, for increasing fiber optic network signal capacity by enabling the simultaneous transmission of up to eight wavelengths over the same common fiber. That is, the MPS-2800 works in such a way as to MUX or DeMUX optical signals within the CWDM band. The optical channel wavelengths cover the 1471 to 1611 nm range with 20 nm channel spacings.

The CWDM utilizes a micro-optic filter based technology to provide high performance, excellent environmental and mechanical stability in a compact package. Refer to Page (2) for detailed specifications. The MPS-2800 is available in a ruggedized composite package with fiber pigtail configurations including 250 µm, 900µm jacketed leads supplied with or without connectors.

Information: Call us toll-free at 888-868-8967 or email info@b2bphotonics.com

Applications

- CATV Fiber Links
- Long Haul/Suscriber Loops
- FTTX
- EDFA
- RF/Fiber Optic Links

Features

- Micro-Optics Based Design
- Epoxy Free Optical Path
- Low Insertion Loss
- High Isolation
- Environmentally Stable
- Injection Molded Case

Microwave Photonic Systems, Inc.
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Specifications

Note 1: All values specified are without connectors.
Note 2: Higher performance specifications upon request.
Note 3: Fiber type is Corning SMF-28 unless otherwise specified.
Note 4: 1300 nm band series is available.

Coarse Wave Division Multiplexing (CWDM) combines up to 16 wavelengths onto a single fiber. CWDM technology uses an ITU standard 20nm spacing between the wavelengths, from 1310nm to 1610nm. With CWDM technology, since the wavelengths are relatively far apart (compared to DWDM), the transponders are generally not very expensive.

Parameter:	**4 Channels**	**8 Channels**
Central Wavelength:	See Ordering Information	-
Channel Spacing:	20 nm	-
Channel Pass Band @ -0.5 dB:	CWL +/- 6.5nm	-
Insertion loss:	<=1.6 xB	<= 3.0 dB
Passband Ripple:	d" 0.3 dB	-
Wavelength Temperature - Sensitivity:	d" 5pm/°C	-
Adjacent Channel Isolation:	e" 30 dB (demux)	-
Directivity:	e" 55 dB	-
Return Loss:	e" 45 dB	-
PDL:	d" 0.1 dB	-
Maximum Power Handling:	300 mW	-
Operating Temperature:	0° C to +65° C	-
Storage Temperature:	-40° C to +85° C	-
Package Dimension:	110.0 x 90 x 7.0 mm	124.5 x 90 7.0 mm

Part Number Generator

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Number of Channels	1st Channel CWL	Last Channel CWL	Cable Length	Pigtail Style	Connector
04 = 4 Channels	1 = 1471	1 = 1471	(X) Meters	(B) = 250 um Barefiber	0 = None
08 = 8 Channels	2 = 1491	2 = 1491		(L) = 900 um loose tube	1 = FC/UPC
	3 = 1511	3 = 1511			2 = FC/APC
	4 = 1531	4 = 1531			3 = SC/UPC
	5 = 1551	5 = 1551			4 = SC/APC
	6 = 1571	6 = 1571			5 = LC/UPC
	7 = 1591	7 = 1591			6 = Special
	8 = 1611	8 = 1611			7 = ST/UPC

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