

MPS-2900

Dense Wavelength Division Multiplexer



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

The MPS-2900 Singlemode Dense Wavelength Division Multiplexer (DWDM) provides a cost effective solution, for increasing fiber optic network signal capacity by enabling the simultaneous transmission of eight wavelengths over the same common fiber. That is, the MPS-2900 works in such a way as to MUX or DeMUX optical signals within the C and L band windows. The optical channel wavelengths correspond to the standard ITU grid and are available with either 100 or 200 GHz spacings.

The DWDM 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-2900 is available in a ruggedized composite package with fiber pigtail configurations including 250 μm , 900 μm buffered 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

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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: 4 and 16 channels specifications available upon request.

Parameter:	4 Channels	8 Channels
Central Wavelength:	ITU grid (8 channels)	-
Channel Pass Band @ -0.5 dB:	ITU +/- 0.11 nm min.	ITU +/- 0.25 nm min
Insertion loss:	<= 3.5 dB typ, 4.5 dB max	<= 3.5 dB typ, 4.5 dB max
Uniformity:	<=1.5 dB	-
Passband Ripple:	<= 0.5 dB	-
Wavelength Temperature - Sensitivity:	<= 1pm/°C	<= 2 pm/°C
Insertion Loss Temperature - Sensitivity:	<= 0.005 dB/°C	-
Adjacent Channel Isolation:	>= 25 dB (demux)	-
Non-adjacent Channel Isolation:	>= 40 dB	-
Directivity:	>= 50 dB	-
Return Loss:	>= 45 dB	-
PDL:	<= 0.20 dB	<= 0.15 dB
PMD:	<= 0.10 ps	-
Maximum Power Handling:	300 mW	-
Operating Temperature:	0° C to +65° C	-
Storage Temperature:	-40° C to +85° C	-
Package Dimension:	125.0 x 107 x 7.0 mm	-

Part Number Generator

