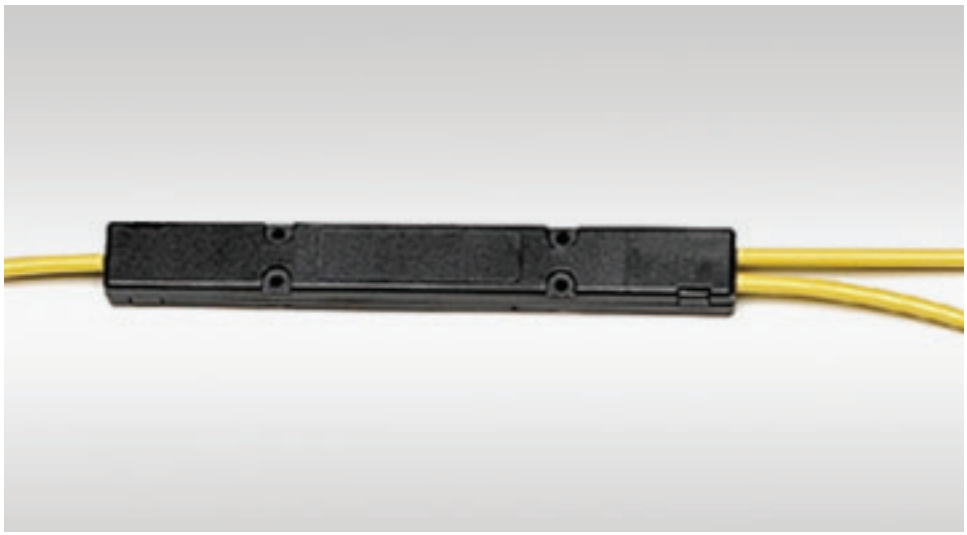
MPS-2700

Singlemode Wavelength Division Multiplexer



Increasing fiber optic network signal capacity by enabling the simultaneous transmission of two wavelengths over-the same common fiber

The MPS-2700 Singlemode Wavelength Division Multiplexer (WDM) provides a cost effective solution, for increasing fiber optic network signal capacity by enabling the simultaneous transmission of two wavelengths over the same common fiber. That is, the MPS-2700 works in such a way as to MUX or DeMUX optical signals within the 1310 and 1550 nanometer windows.

The WDM utilizes a micro-optic filter based technology to provide high performance, excellent environmental and mechanical stability in a compact package. The MPS-2700 is available in two performance grades that offer either standard or high optical isolation between the two wavelength channels. Refer to Page (2) for detailed specifications.

The MPS-2700 can be purchased in one of two optional packages. The package options include either a small form factor cylindrical design for OEM applications or a heavy-duty injection molded case for harsh environment or system level applications. The fiber pigtail configurations include 250 µm, 900µm, 2mm or 3mm jacketed leads supplied with or without connectors.

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

Applications

- CATV Systems
- Long Haul/Subscriber Loops
- FTTX
- RF Fiber Optical Links
- Optical Test Labs
- Optical Sensors

Features

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

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100204 CAGE 1A9M1

MPS-2700

Singlemode Wavelength Division Multiplexer

Specifications

Standard Unit		High Isolation	
Pass Channel Wavelength Range:	1250-1350 nm or 1520-1600 nm	Pass Channel Wavelength Range:	1460 to 1620
Reflection Channel Wavelength Range:	1520-1600 nm or 1250-1350 nm	Reflection Channel Wavelength Range:	1260 to 1360
Insertion Loss in Reflection:	< 0.5 db	Insertion Loss in Reflection:	< 1.0 db
Insertion Loss In Transmission:	< 0.6 dB	Insertion Loss In Transmission:	< 1.0 dB
Isolation in Reflection:	> 15 dB	Isolation in Reflection:	> 45 dB
Isolation in Transmission:	> 30 dB	Isolation in Transmission:	> 45 dB
Return Loss:	> 55 dB	Return Loss:	> 50 dB
Directivity:	> 55 dB	Directivity:	> 55 dB
PDL:	< 0.1 dB	PDL:	< 0.15 dB
Maximum Power Handling:	300 mW	PMD:	< 0.1 dB
Operating Temperature:	0° C to +65° C	Maximum Power Handling:	300 mW
Storage Temperature:	-40° C to +85° C	Operating Temperature:	0° C to +65° C
Package Dimension:	5.45 mm (W) x 35.0 mm (L)	Storage Temperature:	-40° C to +85° C
		Package Dimension:	5.45 mm (W) x 35.0 mm (L)

Part Number Generator

2700 – □ – □ – □ – □ – □ – □

Isolation
S = Standard
H = High

Wavelengths
(reflection)
13 = 1310 nm
15 = 1550 nm

Fiber Length
(X) Meters

Furcation Diameter
(B) = 250 um Barefiber
(L) = 900 um loose tube
(K) = 2mm cable
(M) = 2.4mm cable
(R) = 3mm cable

Case Style
C = Cylindrical
H = Heavy Duty

Connector
0 = None
1 = FC/UPC
2 = FC/APC
3 = SC/UPC
4 = SC/APC
5 = LC/UPC
6 = Special
7 = ST/UPC

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