

Microwave Photonic Systems, Inc. 888-868-8967

MPS-2700 Singlemode Wavelength Division Multiplexer

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



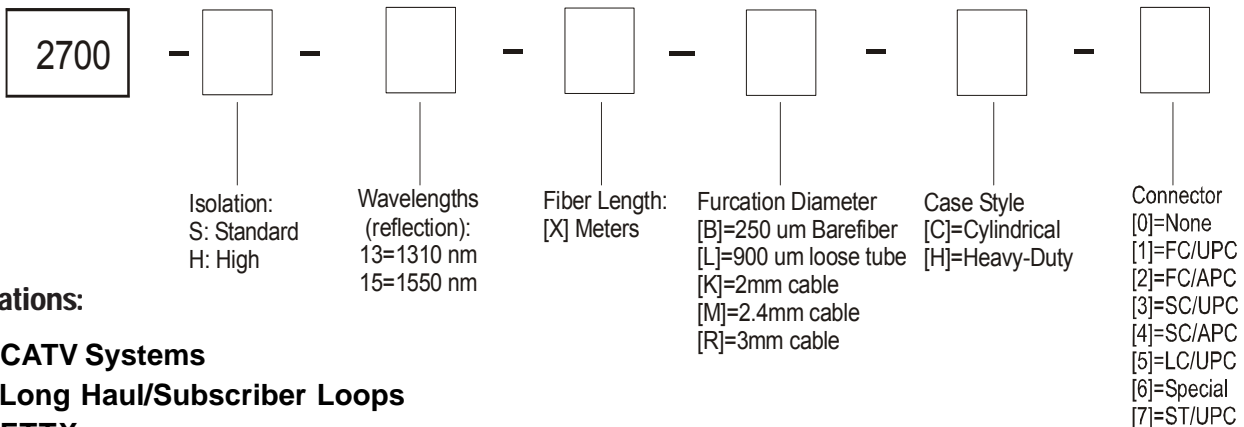
Description:

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.

Part Number Generator:



Applications:

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



SM OPTICAL WAVE DIVISION MULTIPLEXER

Microwave Photonic Systems, Inc. 888-868-8967**MPS-2700 Singlemode Wavelength Division Multiplexer****Specifications**

Standard Unit	
Pass Channel Wavelength Range	1250-1350 nm or 1520-1600 nm
Reflection Channel Wavelength Range	1520-1600 nm or 1250-1350 nm
Insertion Loss in Reflection	< 0.5 dB
Insertion Loss in Transmission	< 0.6 dB
Isolation in Reflection	> 15 dB
Isolation in Transmission	> 30 dB
Return Loss	> 55 dB
Directivity	> 55 dB
PDL	< 0.1 dB
Maximum Power Handling	300 mW
Operating Temperature	0°C ~ +65°C
Storage Temperature	-40°C ~ +85°C
Package Dimension	5.45 mm (Φ) x 35.0 (L) mm

High Isolation	
Pass Channel Wavelength Range	1460 - 1620
Reflection Channel Wavelength Range	1260 - 1360
Insertion Loss in Reflection	< 1.0 dB
Insertion Loss in Transmission	< 1.0 dB
Isolation in Reflection	> 45 dB
Isolation in Transmission	> 45 dB
Return Loss	> 50 dB
Directivity	> 55 dB
PDL	< 0.15 dB
PMD	< 0.1 dB
Maximum Power Handling	300 mW
Operating Temperature	0°C ~ +65°C
Storage Temperature	-40°C ~ +85°C
Package Dimension	5.45 mm (Φ) x 35.0 (L) mm

