

Microwave Photonic Systems, Inc. 888-868-8967

MPS-2750 Multimode Wavelength Division Multiplexer

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



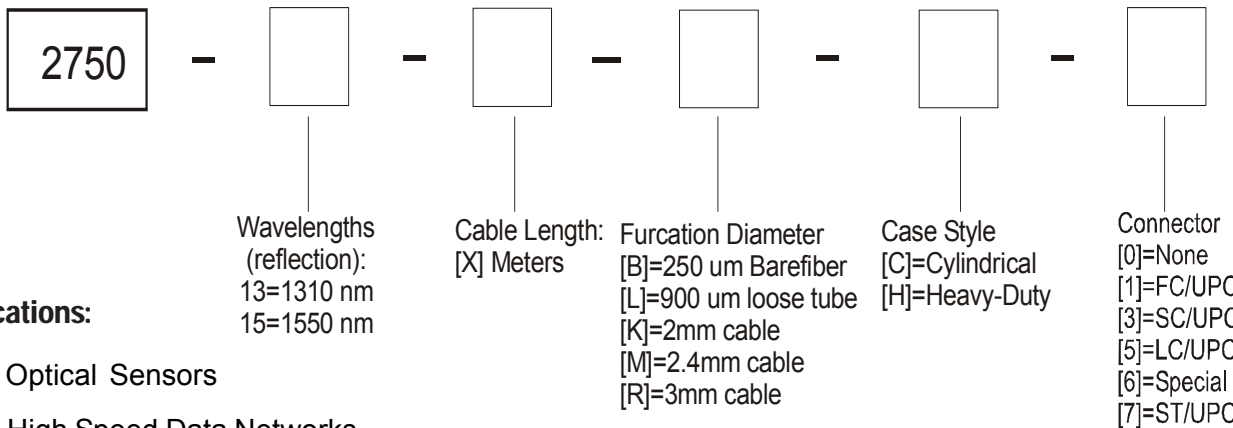
Description:

The MPS-2750 Multimode 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-2750 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. Refer to Page (2) for detailed specifications.

The MPS-2750 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:

- Optical Sensors
- High Speed Data Networks
- Local Area Networks (LAN)
- Telecommunications



MM OPTICAL WAVE DIVISION MULTIPLEXER

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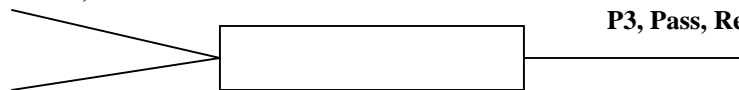
Specifications

Parameter		Requirement
Transmission Wavelength		1310nm
Reflection Wavelength		1550nm
Insertion Loss	P1->P2 @ 1550nm	< 0.9dB
	P1->P3 @ 1310nm	
Isolation	P1->P2 @ 1310nm	> 15dB
	P1->P3 @ 1550nm	> 40dB
Return Loss		> 20dB
Directivity		> 55dB
Thermal Stability		< 0.005dB/°C
Optical Power		< 250mW
Tensile Load		< 5N
Operating Temperature		0~70 °C
Storage Temperature		-40~85 °C
Fiber Type		62.5/125µm
Package Size		Φ5.5 x 40mm for 900µm

P1, Common, Blue

P2, Reflection, Red

P3, Pass, Red



Package Dimension:

Ø5.5 x 40mm for 900µm loose tube