

MPS-2750

Multimode Wavelength Division Multiplexer



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

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 , 900 μm , 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

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

Features

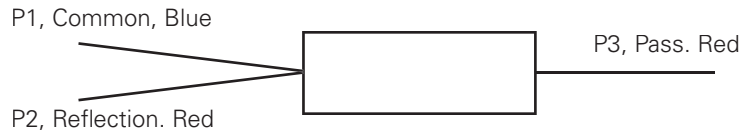
- Micro-Optics Based Design
- Epoxy Free Optical Path
- Low Insertion Loss
- High Isolation
- Environmentally Stable
- Injection Molded Case

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Specifications

Parameter	Requirement
Transmission Wavelength:	1310 nm
Reflection Wavelength:	1550 nm
Insertion Loss:	
P1->P2 @ 1550nm:	< 0.9 db
P1->P3 @ 1310nm:	< 0.9 dB
Isolation:	
P1->P2 @ 1310nm:	> 15 dB
P1->P3 @ 1550nm:	> 40 dB
Return Loss:	> 20 dB
Directivity:	> 55 dB
Thermal Stability:	0 < 0.005 dB/°C
Optical Power:	< 250m W
Tensile Load:	< 5N
Operating Temperature:	0 to 70 °C
Storage Temperature:	-40° C to +85° C
Fiber Type:	62.5/125um
Package Dimension:	5.5 x 40 mm for 900µm



Package Dimension: Ø-5.5 x 40mm for 900µm loose tube

Part Number Generator

2750	-		-		-		-	
	<u>Wavelengths</u> (reflection)	<u>Fiber Length</u> (X) Meters	<u>Furcation Diameter</u>	<u>Case Style</u>	<u>Connector</u>			
	13 = 1310 nm 15 = 1550 nm		(B) = 250 um Barefiber (L) = 900 um loose tube (K) = 2mm cable (M) = 2.4mm cable (R) = 3mm cable	C = Cylindrical H = Heavy Duty	0 = None 1 = FC/UPC 2 = FC/APC 3 = SC/UPC 4 = SC/APC 5 = LC/UPC 6 = Special 7 = ST/UPC			

