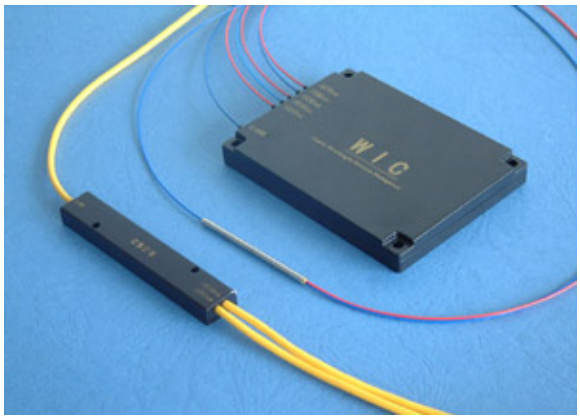
HIGH ISOLATION WDM

Description



Fused Biconic Taper (FBT) Technique is used to make our single mode wavelength division multiplexers (WDM). The WDM multiplexes two optical carrier signals signals at 1310nm and 1550nm wavelengths on a single optical fiber to carry different signals, or de-multiplexes the signals from a single fiber into two separate fibers. This allows for a multiplication in capacity, in addition to making it possible to perform bi-directional communications over one strand of fiber. The true potential of optical fiber is fully exploited when multiple beams of light at different frequencies are transmitted on the same fiber.

Our WDM products have low polarization dependence. Our high isolation WDM has isolation of ≥38dB, and our super high isolation WDM has isolation of ≥45dB.

Features

- Low insertion loss
- High wavelength isolation
- Low polarization dependence
- Environmentally stable

Applications

- WDM Networks
- CATV

Specifications

Characteristics	Unit	Value/Performance	
Isolation Type	-	HWDM	SWDM
Center Wavelength	nm	1310 and 1550	
Bandwidth	nm	±15	
Insertion Loss	dB	≤0.60	≤0.80
Isolation	dB	≥38	≥45
Polarization Dependent Loss	dB	≤0.1	
Thermal Stability	dB/°C	≤0.002 over -20 ~ +70°C	
Directivity	dB	≥60	
Configuration	-	1x2	
Lead Length	m	1, others on request	
Lead Type	-	900um, 2mm or 3mm loose tube	
Package Type	-	C	C or D
Operating Temperature	°C	-20 ~ +70°C	

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Dimensional Drawing

Please see coupler package information.

Ordering Information

Part Number: **HWDM-12 3 SM 1 C - 1 FU**

1	Isolation Type	HWDM = high isolation, SWDM = super high isolation
2	Wavelength	3 = 1310nm & 1550nm
3	Lead Type	2=900um, 3=2.0mm, 4=3.0mm
4	Package Type	C or D
5	Lead Length	0.5=0.5m, 1=1m, etc.
6	Connectors Terminated	Blank=no connector, FU=FC/UPC, FA=FC/APC, SU=SC/UPC, SA=SC/APC

Products manufactured in
ISO 9001 certified facilities