

Features and Benefits

- High Port Isolation
- Low Insertion loss
- Environmentally Suitable

Wavelength Division Multiplexer



Use WDMs from Storm Fiber Optics to enhance the wavelength stability of systems with demanding bandwidth requirements.

Storm specializes in: standard 1310/1550 nm products available in unimux, bimux, and demux configurations: WDMs that perform in the L Band (1310/1625, 1550/1625); and pump WDMs (980/1550, 1480/1550).

Storm WDMs are manufactured utilizing Fused Biconical Taper technology, which provides exceptional characteristics for applications demanding critical performance. A variety of packaging configurations and connector types offers flexibility to meet your requirements.

SPECIFICATIONS AND ORDERING INFORMATION

The performance of the couplers has been carefully designed to meet the toughest Telcordia standards TA-NWT-001221	
Test	Specification
High Temperature Storage Test	85°C for 5,000 hours
Low Temperature Storage Test	-40°C for 5,000 hours
Damp Heat Test	75°C / 95% RH for 5,000 hours
Thermal Cycling Test	-40°C / 75°C for 500 cycles
Fiber Pulling Test	0.23Kg for 25um fiber and 900um loose tube 1.36Kg for jacketed cable
Water Immersion Test	43°C, ph = 5.5, 168 hours
Vibration Test	10 ~ 2,000 Hz random 20G, 3 axis
Impact Test	8 drops, 1.8 meters high
Fiber Torsion Test	180° twist, both directions, 5N force

WDMS Item	Standard			Pump		High Isolation	
Operating Wavelength (nm)	1310/1550	1310/1625	1550/1625	980/1550	1480/1550	1310/1550	
Type	Unimux					Bimux	Demux
Typical Insertion Loss	0.25	0.5	0.4	0.5	0.7	1.0	
Peak Isolation (dB)	> 16	> 10	22 typical	14 typical	> 30	> 40	
Bandwidth (nm)	+/- 20	+/- 5	+/- 10	+/- 5	+/- 20		
Directivity (dB)	--	--	< -50		--		
Polarization Stability (dB)	< 0.1	< 0.2	< 0.1	< 0.3	< 0.2		
Thermal Stability (dB)	< 0.2	< 0.2	< 0.2	< 0.3	< 0.3		
Operating Temperature (°C)	- 40 ~ +85						
Storage Temperature (°C)	- 55 ~ +85						

Part Numbering System	
Code	Description
1	Type: U = Unidirectional, B = Bidirectional, D = Demultiplexer
2	Grade: A
3	Wavelength: 35 = 1310/1550, 36 = 1310/1625, 56 = 1550/1625, 95 = 980/1550, 45 = 1480/1550
4	Port Configuration: 0102 = (1 x 2) or 0202 = (2 x 2)
5	Package Style: See below.
6	Fiber Type: B = Bare, 9 = 900 um, 3 = 3 mm cable or A = Adapter
7	Input Port Length in meters (1 meter increments)
8	Output Port Length in meters (1 meter increments)
9	Input Port Connector / Adapter
10	Output Port Connector / Adapter

Package Options	
B	Tube, 3.0 x 53 mm
M	Tube, 3.8 x 70 mm
L	Tube, 3.0 x 76 mm
O	Tube, 3.8 x 95 mm
E	Box, 101 x 12 x 10 mm
Q	Box, 120 x 12 x 10 mm
F	Box, 100 x 80 x 10 mm
G	Box, 140 x 90 x 10 mm
H	Enclosure Module (fits into 4 rack space enclosures)

Connector/Adapter Codes	
L	LC
M	LC Duplex w/ clips
D	90° Boot
T	SC
B	SC Duplex w/ clips
Q	SC (APC)
C	SC 90° Boot
P	FC
U	FC (APC)
R	ST Compatible
0 (zero)	NO CONNECTOR

FOR ADDITIONAL INFORMATION ON THIS OR OTHER PRODUCTS AND THEIR AVAILABILITY, PLEASE CONTACT FIBER OPTIC CENTER, INC.