

WaveShifter® Wavelength Division Multiplexing (WDM) Module



Key Features

- Double fiber capacity
- Economical for metro and access networks
- Save time and money over new fiber
- Utilize fiber more efficiently
- Recover fiber for new services

Applications

- Use with WaveShifter 300 modules to install a two-fiber system on one fiber or a four-fiber system on two fibers

Compliance

- Telcordia GR-63-CORE and GR-1089-CORE

The WaveShifter WDM modules conserve fiber by using 1310/1550 nm wavelength division multiplexing to combine two optical signals onto one fiber.

WaveShifter WDM modules are normally paired with WaveShifter 300 modules to provide a plug-and-play, 2-to-1 solution for 1310 nm transmission systems. The modules can also be used when both 1510 and 1310 nm wavelength signals are provided.

WaveShifter WDM modules are purely passive optical devices, making them an ideal solution for remote cabinets or customer premises where power and alarm connections are not available.

The modules are completely independent of data rate and format and can be used in both unidirectional and bidirectional configurations.

Configuration

(Bidirectional configuration shown; also works in a unidirectional configuration)



2

Specifications

Parameter	Specification
Optical	
1310 nm port wavelength	1250 to 1350 nm
1310 nm port fiber type	Single mode
1550 nm port wavelength	1480 to 1600 nm
1550 nm port fiber type	Single mode
COM (port) fiber type	Single mode
Insertion loss	<1.5 dB
Isolation	>40 dB (Tx to Rx)
Connectors	SC/PC
Physical	
Mounting	Shelf, dual, or single configurations, wall mount
Dimensions of ruggedized WDM coupler (W x H x D)	14.7 x 8.1 x 82.6 mm
Dimensions of WDM module (W x H x D)	2.54 x 15.24 x 24.77 cm
Environmental	
Operating temperature	-40 to 85 °C
Storage temperature	-40 to 85 °C
Humidity	95% RH non-condensing

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: 525.730.006 and 519.530.007 (WDM module, SC with FiberShelf®)

Product Code	Description
525.730.006	WDM module, SC

Associated Parts

Product Code	Description
519.530.007	FiberShelf®
520.204.320	Wall-mount bracket

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