

MULTIMODE WDM

Multimode Fiber Wavelength Division Multiplexer (WDM) Components

PRODUCT DATASHEET

G&H multimode (MM) micro-optic WDMs offer a broad operation bandpass, with low insertion loss and high channel isolation.

G&H manufactures a range of fiber optic couplers and optical signal splitters. We are now offering a new line of micro-optic based multimode (MM) fiber WDM components for 850/1310 nm channels.

High channel isolation, low insertion loss and flat response over a broad operating band makes this WDM device very suitable for data communication, CATV and other applications. The units are available in multimode fibers 50/125 μm , 62.5/125 μm and other fibers available upon request.



Key Features

- Broad operating bandpass for $\lambda_c \pm 50$ nm
- Low insertion loss
- High channel isolation
- High performance and reliability

Applications

- Data communication systems
- CATV
- WDM and test instruments



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info@amstechnologies.com
www.amstechnologies-webshop.com

Contact us 

PRODUCT CODE: FWDM

Datasheet revision no 1.1

As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.

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Page 1

Optical Specifications

Specification without connectors	
Fiber type ¹	20/125 μm or 62.5/125 μm
Operating wavelength	850 \pm 50 nm or 1310 \pm 50 nm
Port configuration	1x2
Pass band insertion loss ²	\leq 0.7 dB
Reflection band insertion loss ²	\leq 0.6 dB
Pass band isolation	\geq 30 dB
Reflection band isolation	\geq 15 dB
Directivity	\geq 38 dB
Return loss	\geq 30 dB
Power handling	\leq 500 mW
Operation temperature	-20 to +70°C
Storage temperature	-40°C to +85°C
Package dimensions	\varnothing 5.5x34 mm
Lead buffer	Bare fiber or 900 μm jacket

¹ Other fiber types available upon request.

² If testing with overfilled launch condition insertion loss will be slightly higher.

Order code

					①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
F	W	D	M	-				8	5	3	1					
① Pass port options					Long pass (short reflect)					Short pass (long reflect)						
Code					L					S						
②③ Fiber					50/125 μm					62.5/125 μm						
Code					11					12						
④⑤ Short wavelength					850 nm											
Code					85											
⑥⑦ Long wavelength					1310 nm											
Code					31											
⑧⑨ Buffer type					250 μm jacket					900 μm jacket						
Code					AA					BB						
⑩⑪ Lead length					0.5 m			1 m			etc					
Code					05			10			etc					
⑫ Connector type					None		ST		FC		SC					
Code					0		2		3		4					

Specifications are based on non-connectorized products. For connectorized specifications, please contact sales for details. Custom optical and mechanical configurations are available upon request.



info@amstechnologies.com
www.amstechnologies-webshop.com



For further information

E: sales@gandh.com

gandh.com

MULTIMODE WAVELENGTH DIVISION MULTIPLEXER