MULTIMODE COUPLER

Modal Insensitive MM Fiber Optic Couplers and Optical Splitters

PRODUCT DATASHEET

The G&H line of micro-optic based multimode (MM) modal insensitive fiber coupler components feature stable coupling/split ratios with different types of light sources such lasers, SLDs and LEDs.

Unlike the fused (FBT) multimode couplers/ splitters, the micro-optic based multimode couplers can hold the designed split ratio unchanged for any type of light sources used during operation and testing.

The couplers are available in different split ratios (50/50, 10/90, 5/95) and can be made with either 50/125 µm or 62.5/125 µm multimode fibers. Other fibers and coupling ratios are available upon request.

Key Features

- Broad operating bandpass for λc±50 nm
- High performance over single band (850 nm, 1310 nm) and dual band 850 and 1310 nm
- Stable coupling ratio for any light source
- High performance and reliability

Applications

- Multimode fiber system
- LAN
- Test instruments
- Bio/medical systems
- Sensors
- Research and development

PRODUCT CODE: MMIC

Optical Specifications

Modal Insensitive MM Fiber Optic Couplers and Optic Splitters (850 nm and 1310 nm)

Specification without connectors			
Fiber type[1]		20/125 µm	62.5/125 µm
Operating wavelength		850±50 nm	1310±50 nm
Port configuration		1x2	
Insertion loss[2]	Coupling ratio 50/50%	≤4.0/4.0 dB	
	Coupling ratio 10/90%	≤11.5/1.3 dB	
	Coupling ratio 2/95%	≥14.5/1.1 dB	
PDL		≤0.1 dB	
Directivity		≥38dB	
Return loss		≥30 dB	
Power handling		≤500mW	
Operation temperature		-20 to +70°C	
Storage temperature		-40°C to +85°C	
Package dimensions		Ø5.5x34 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
M	M	I	C	-			-			-			-			

①②	**Fiber**	50/125 µm		62.5/125 µm	
	Code	11		12	

③④	**Coupling ratio**	1%	5%	50%	etc.
	Code	01	05	050	etc.

⑤⑥	**Buffer type**	250 µm jacket	900 µm
	Code	AA	BB

⑦⑧	**Lead length**	0.5 m	1 m	etc.
	Code	05	10	etc.

⑨	**Connector style**	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.

For further information

E: sales@gandh.com

gandh.com