

Product Information

SINGE MODE DUAL WINDOWS WIDEBAND COUPLER (DWC)



Features

- Low PDL
- Low Insertion Loss
- Dual window wideband operation
- Excellent Uniformity
- High Directivity
- Highly Stable and Reliable

Applications

- Telecommunications
- Local Area Network (LAN)
- Passive Optical Network (PON)
- Cable TV
- Fiber sensors

Product Performance Characteristics

Parameters	Premium	A Grade
Wavelength (nm)	1310±40nm and 1550±40nm	
Uniformity (dB) (Max.) (CR:50/50)	0.8	1.1
Directivity (dB) (Min.)	55	
Operating Temperature	- 40°C ~ 85°C	

Special dimension upon request

Coupling Ratios/ PDL/ Insertion Loss Chart

Coupling ratio %	Premium		A Grade	
	Max. PDL (dB)	Max. I.L. (dB)	Max. PDL (dB)	Max. I.L. (dB)
50/50	0.15/0.15	3.6/3.6	0.2/0.2	3.9/3.9
40/60	0.2/0.15	4.7/2.7	0.2/0.2	5.0/2.9
30/70	0.2/0.15	6.0/1.9	0.2/0.2	6.4/2.1
20/80	0.3/0.15	7.9/1.2	0.3/0.2	8.5/1.4
10/90	0.3/0.15	11.3/0.7	0.3/0.2	12.7/0.8
5/95	0.35/0.15	15.2/0.4	0.35/0.2	15.5/0.5
1/99	0.35/0.15	23.5/0.3	0.35/0.2	24.0/0.32

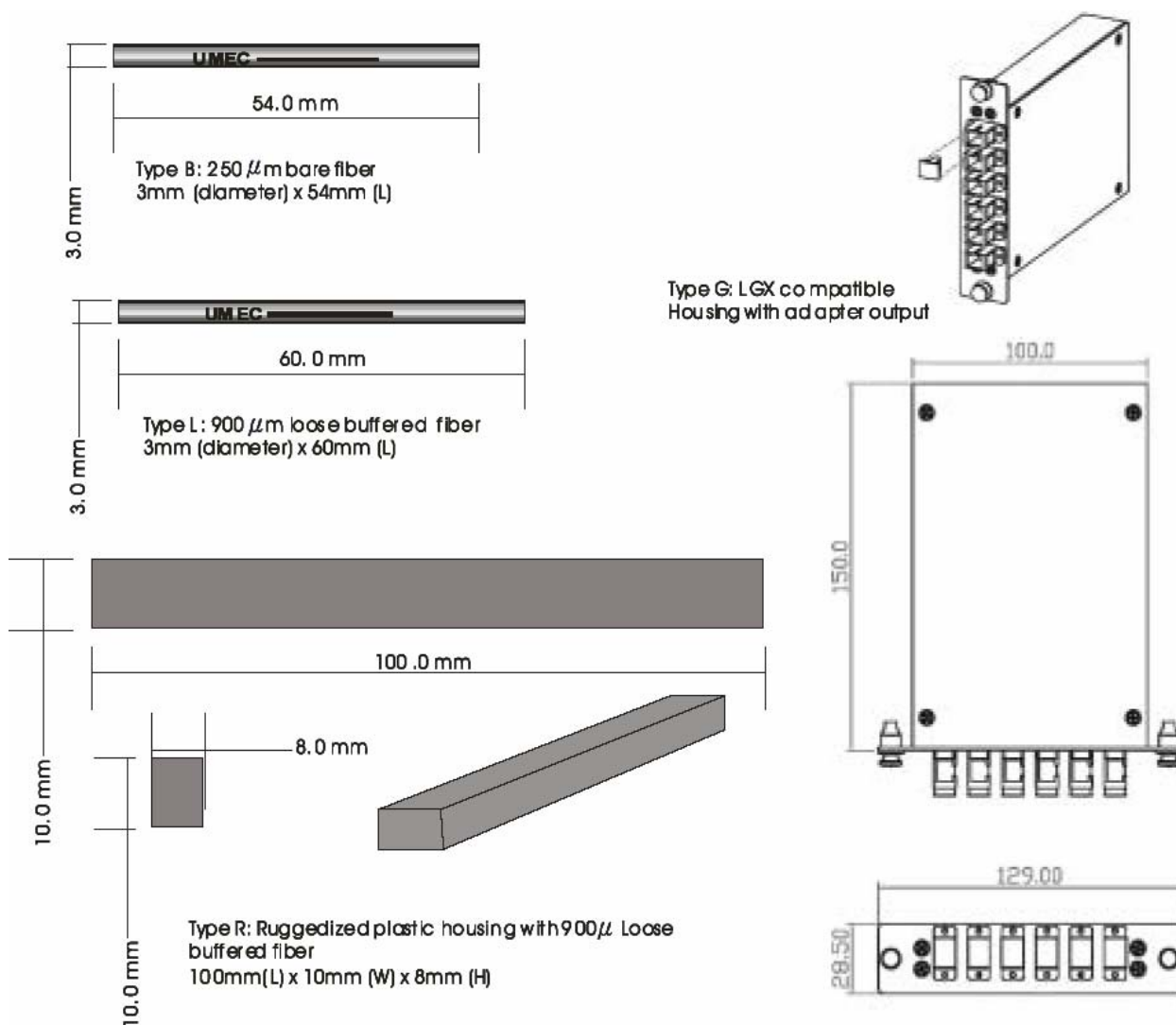
The above values are referenced without connectors.

Mechanical Outline

Package type	Housing type	Dimension	Pigtail style
Type B	Steel tube	3mm(Ø) x 54mm (L)	250µm bare fiber
Type L	Steel tube	3mm(Ø) x 60mm (L)	900µm loose buffered fiber
Type R	Ruggedized plastic housing	100 mm (L) x 10 mm (W) x 8 mm (H)	900µm loose buffered fiber
Type G	LGX compatible module	See below	Output port is adapter

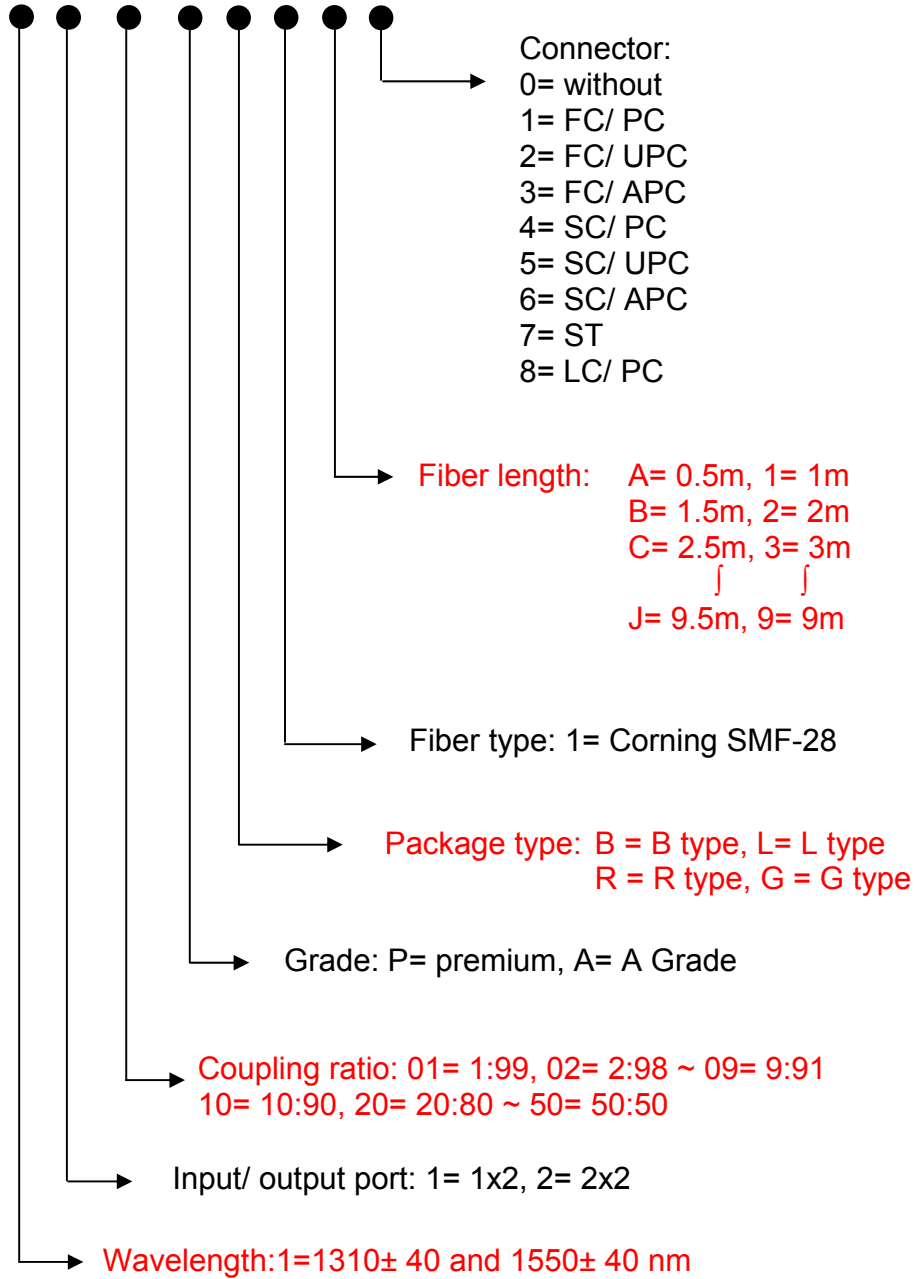
The dimension of type G package will depend on output port number, below LGX compatible housing is just for reference.

We also provide LGX compatible chassis, please see our chassis specification.



Ordering information

DWC-X-X-XX-X-X-X-X-X-UM



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