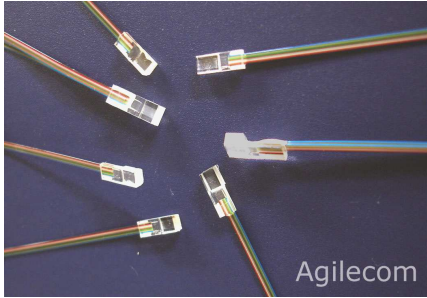


Fiber Array Block Unit (FABU)



- Key Features**
- High precise fiber core-to-core accuracy
 - Standard 1,2,4,8, 16, 32, 48 fiber position
 - Low Insertion loss and high reliability
 - Angle polish and customer product available
 - Different fiber connector (Optional)

Applications

- Planar lightwave circuits devices
- Array waveguide grating (AWG's)
- Planar lightwave splitters/couplers
- Arrayed active and passive fiber devices
- MEMS devices
- Multi-channel micro-optics modules

Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE

Agilecom's fiber array block units (FABU's) utilize glass or silicon substrate and special fabrication technologies to achieve accurate fiber position and high reliability to meet different requirement.

The FABU's are produced by placing fibers in precision glass v-groove substrate with another flat glass chip on top to form a 3-point contact with unique material and processing technologies. This enables packaging designers to match the thermal expansion coefficient of FABU with pigtail devices to achieve stress free performance and high reliability. The FABU end facet is polished accurately to required angle without fiber piston effect in a large working temperature range.

These products meet or exceed Telcordia GR-1209-CORE and GR-1221-CORE reliability qualification requirement.

Specifications

Number of Channels	1	4	8	16	32	48	
Material	Quartz, Silicon, Pyrex						
V-groove Pitch	μm	250/127(±0.5)					
Pitch Accuracy	μm	±0.5 (standard), ±0.2 (special requirement)					
Polishing Angle	°	0° (±0.3°) or 8° (±0.3°)					
Pigtail Type		250μm/900μm	4 Ribbon	8 Ribbon	2x8 Ribbon	4x8 Ribbon	6x8 Ribbon
Channel Spacing	μm		250	250	127	127	127
Dimension (L) × (W) × (T)	mm	6.5 × 2.5 × 2.5	9.5 × 2.5 × 2.5	9.5 × 2.5 × 2.5	9.5 × 3.0 × 2.5	9.5 × 4.9 × 2.5	9.5 × 8 × 2.5
Operating Temperature	°C	-40 ~ +85					
Storage Temperature	°C	-60 ~ +85					

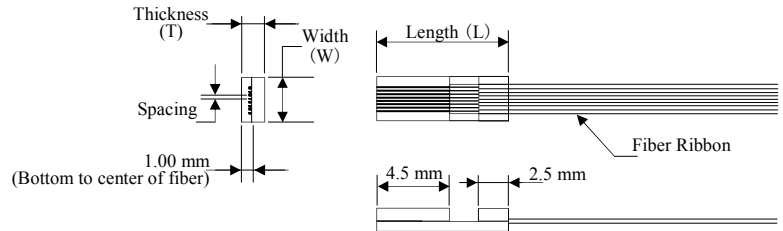
Diagram


Fig. 1. FABU General Dimensions

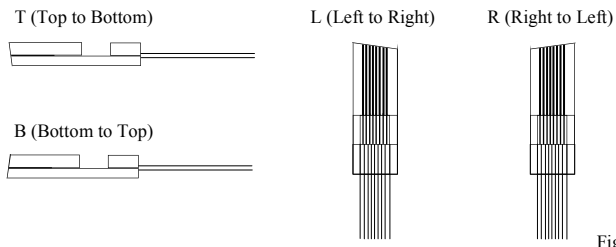


Fig. 2. Reference Drawing For Selecting Angle Direction

Ordering Information

For more information on these or other products and their availability, please contact our sales department at 408-943-0815 in North America and 0760-3338606 in China or via e-mail at sales@agilecom.net.

Sample: FABU — 0825L8PB10

Code		Code		Code		Code		Code	
01	1	12	127µm	0	0 degree	B	250µm Bare Fiber	0	None
02	2	25	250µm	8	8 degree	L	900µm Loose Tube	1	SC/UPC
04	4	XX	Customize	X	Customize	R	Ribbon Fiber	2	SC/APC
08	8					F	Fan-out splitter with 900µm Loose Tube	3	FC/UPC
16	16							4	FC/APC
32	32							5	LC/UPC
48	48							6	ST/UPC
XX	Customize							M	MPX
								P	MPO
								X	Customize

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