

## Fiber Array Block Unit (FABU)

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 requirements. 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 requirements.

### 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



### FA Specifications

Number of Channels		1	4	8	16	32	48	64
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	8x8 Ribbon
Channel Spacing	μm		250	250	127	127	127	127
Package (L×W×H)	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	9.5×8.2×2.5	9.5×10.0×3.0
Operating Temperature	°C	-40 ~ +85						
Storage Temperature	°C	-40 ~ +85						

