

Fiber Array Block Unit (FABU)



Description

Idealphotonics's fiber array bloc units (FABU's) utilize glass or silicon substrate and special fabrication technologies to achieve accurate fiber position and high reliability to meet different requirement. 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 position effect in a large working temperature range.. These products meet or exceed Telcordia GR-1209-CORE and GR-1221-CORE reliability qualification requirement

Feathure

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)

Application

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

Specification

Number of Channels		1	4	8	1	3	4
Material		Quartz, Silicon, Pyrex					
V-groove Pitch	μm	250/127					
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	2x8Ribbon	4x8Ribbon	6x8Ribbon
Channel Spacing	μm		25	25	12	12	1
Package (L× W× H)	m m	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	°C	-40 ~ +85					

Diagram

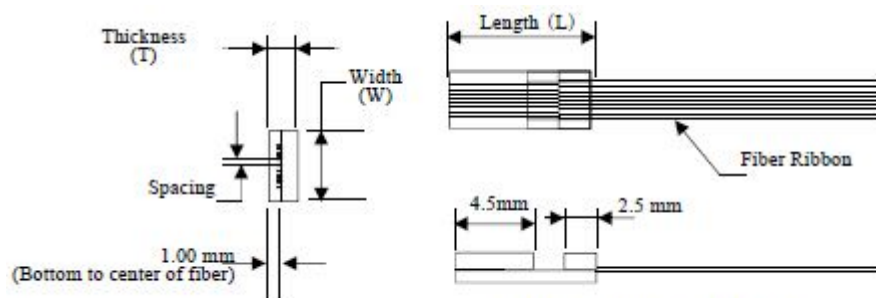
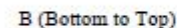
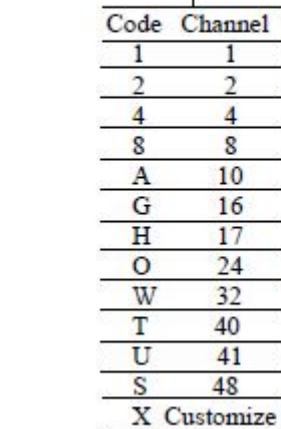


Fig. 1. FABU General Dimensions



Ordering information



Code	V-groove Material
S	Silicon
Q	Quartz
P	Pyrex
R	Quartz half pipe
F	Quartz square pipe

Code	Angle Direction
T	Top to Bottom
B	Bottom to Top
L	Left to Right
R	Right to Left
N	Right angle

Code	Polishing Angle
0	0degree
8	8degree

Code	Fiber Type
S	SMF-28
E	SMF-28e
P	Polarization Maintaining Fiber
X	Customize

Code	Pigtail
0	250 μ m Bare Fiber
1	0.9Loose Tube
2	2.0Loose Tube
3	3.0Loose Tube
4	0.9Tight Tube
5	Fan-out splitter with 900 μ m Loose Tube
R	Ribbon Fiber

Fiber Length		Connector	
Code	Fiber Length	Code	Connector
1	0.5m	0	None
2	1.0m	1	SC/UPC
3	1.5m	2	SC/APC
4	2.0m	3	FC/UPC
5	2.5m	4	FC/APC
6	3.0m	5	LC/UPC
A	1.25m	6	LC/APC
B	1.75m	7	ST/UPC
C	2.25m	8	MU
X	Customize	X	Customize