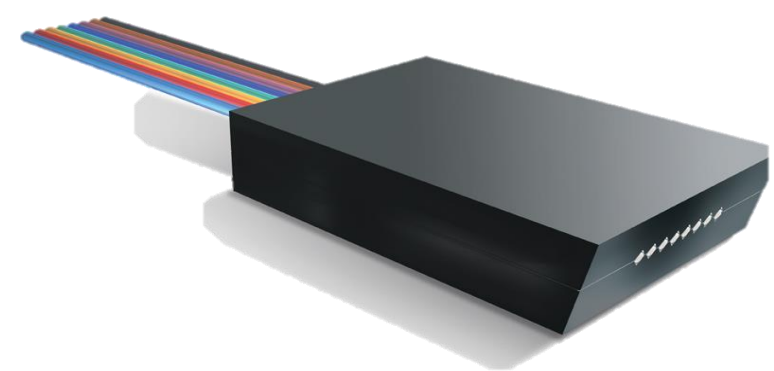


SILICON PHOTONICS

FIBER ARRAY SERIES

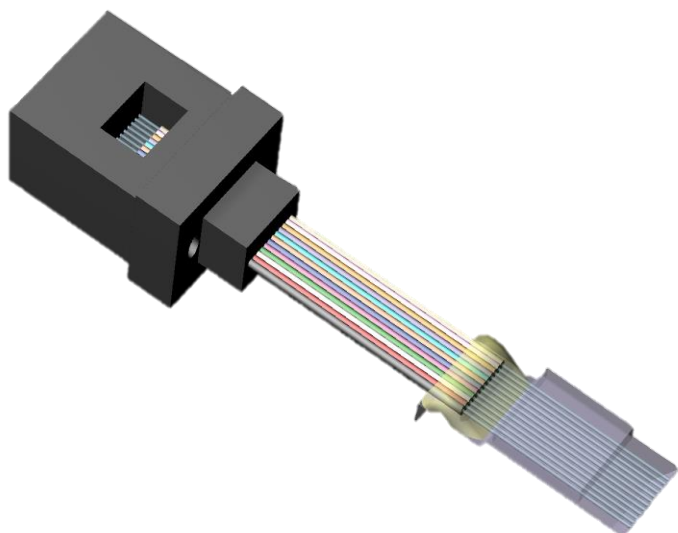
FEATURES & BENEFITS

- Uniform and Solid Fiber Arrays with Value-Added Functionality
- In-Line (Array Tap) and Terminal (Array Receiver) Types
- Specialty Fiber Arrays for Receptacle Small Form Package Module
- High Channel Counts and Various Spacing
- Si and/or Glass Based Fiber Array Available
- PD Integrated Fiber Array for Optical Power Monitoring
- PM Fiber Array with PLC Splitter
- Low insertion Loss and High Reliability
- Multi-Layer, Matrix Type, Pyramid Structure etc.
- AR Coating Available



CORE TECHNOLOGIES

- Operating Wavelength : 1310 and 1550 nm
- Cladding(Core) : 125um(9um MFD), 80um(9um MFD)
- Application of Heat-Resistant Fiber to withstand 250°C Soldering Reflow Process
- 127μm, 165μm, 250μm Various Pitch Alignment
- SMF + PMF Complex Alignment
- 80um RCF Ribbon Alignment
- Multi Channel Alignment
- Short Length Bare Fiber Alignment
- Excellent Accuracy of Fiber Core Position



APPLICATION

- PLC (Planar Lightwave Circuit)
- AWG (Arrayed Waveguide Grating)
- OXC (Optical Cross-Connect)
- MEMS (Micro Systems Technology)
- Other Silicon Photonics Device



ORDERING INFORMATION

e.g. SM-12-R-G-127-MPO(M)-A-FC-A-2B

=Single mode 125um Clad Fiber 12core without PM fiber Ribbon cable General Temperature 127Pitch
MPO(M) APC – FC/APC 2.2M

- A. FIBER TYPE: SM(SINGLE MODE 125um CLAD FIBER) / RC(80um CLAD FIBER)
- B. FIBER COUNT: 12 / 16 / 20 / 24 / 32
- C. PM FIBER COUNT(IF REQUIRED): 1 / 4 / 6
- D. CABLE TYPE: ER(EPOXY RIBBON) / B(BARE FIBER) / R(RIBBON) / F(FAN OUT)
- E. TEMPERATURE: H(HIGH TEMPERATURE) / G(GENERAL TEMPERATURE)
- F. PITCH(um): 127 / 165 / 250
- G. CONNECTOR TYPE SIDE A: MPO(M) / MPO(F) / MT(M) / MT(F)
- H. POLISHING TYPE: A(APC) / U(UPC)
- I. CONNECTOR TYPE SIDE B: FC / BF8(BARE FIBER 8°) / BF0(BF8(BARE FIBER 0°)
- J. POLISHING TYPE: A(APC) / U(UPC)
- K. LENGTH: 2(2M) / 2A(2.1M) / 2B(2.2M) / 0A(0.1M)

SPECIFICATION

Parameters	Unit	Specifications	Remarks
Number of Channel	Port	~1530(10 layers)	Available for customization and multi layers
Materials		Silicon, Pyrex(Py), Quartz(Qz)	Available for customization
Insertion Loss	dB	<0.5	Available for customization
Return Loss	dB	>50	@Angle Polished.
Core Pitch / Error	um	127~250 / ±0.5(Si), ±0.7(Py, Qz)	Available for customization (Machine shop in house)
Polishing Angle	deg.	Standard: 0, 8, 12 (±0.3)	Available Customization
Connector Type		LC, SC, FC	Available Customization
Operating Temp.	°C	-10 ~ +70	
Storage Temp.	°C	-40 ~ +85	