



# Fiber V-Groove Array (FVA)

OFP manufactures a wide range of specialty **FVA products** for coupling optical fiber channels with extreme precision and reliability to active devices such as PIC's, VCSELs, free space collimating arrays, and MLAs. FVA assemblies are commonly used in applications such as high speed Coherent Receivers and Parallel Transceivers. The FVAs can be used in combination with OFP's hermetic feedthroughs. Our engineers can help design highly customized low cost FVA assemblies, ready for mass production for all types of high reliability photonic applications.



## Typical Features

- Fiber counts: 1, 2, 4, 8, 16, 24, 48, 64, 72, 96.
- FVAs with SM and PM fiber mix.
- Core pitch: 127um, 250um, 500um, 1mm, etc.
- Core position accuracy < 0.5um.
- Materials: Quartz, Pyrex®, Silicon, BK-7 or other materials.
- Single layer or Dual Layer.
- End-face polish accuracy < +/- 1 degree. Customer specified angles.
- Ultra small e.g. 1.0 x 1.0 mm, to fit through package pipes.

## Typical Features

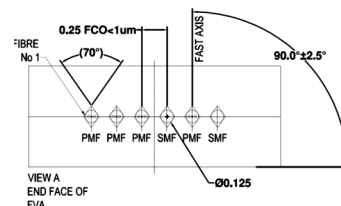
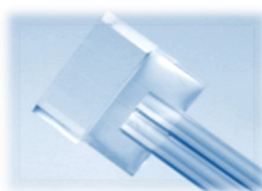
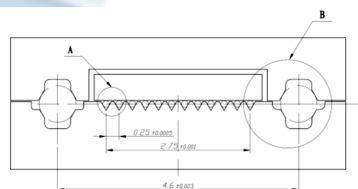
- Available with Protruding Cleaved Fibers, for example TIR at 45 degrees. Additional high reflectance coatings available.
- Custom AR Coating available on FVA end-face.
- For SM, PM, MM, Hollow-Core, Mid-IR and hybrid arrays of fiber.
- Excellent PER performance on PM fiber.
- Terminated to all connector types: FC, SC, LC, MT etc. with ribbon or discrete fibers.
- Telcordia GR-1221-CORE compliant, tested to 5000 hours.



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