## FIBER ALIGNMENT <br> multi-fiber aligners and integrated oe fiber aligners

## Improve and Simplify Integration

High-density arrays simplify integration, alignment, and assembly, speeding up manufacturing and reducing BOM.


## 1) Fiber Alignment Holes <br> High-density alignment arrays (e.g. > 20 fibers)

## 2) Glass Support Substrate

$150 \times 15$ micron glass substrate supports and maintains structural integrity, spacing and alignment fibers
3) Precise Fiber Alignment

Manufacturing tolerance of through-holes as low as $\pm 1.5 \%$

## Hole-to-Hole Accuracy

High-accuracy alignments reduce insertion loss between connections.

Improve Performance and Reduce Package Size
High-density arrays simplify integration, alignment and assembly.

Glass Improves Performance
Fiber aligners increase assembly options as the glass is transparent to UV light, enabling UV curing processes.

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## FIBER ALIGNMENT <br> MULTI－FIBER ALIGNERS AND INTEGRATED OE FIBER ALIGNERS

## Electrical and Optical Integration

Electrical traces can be combined with through－holes to maximize integration possibilities，further reducing package sizes．

## Custom Solutions for Improved Outcomes

Each application is unique in footprint，thermal management requirements，and additional features． Contact us directly with your specific needs．


Design Limits

| PARAMETERS | TYPICAL | PERFORMANCE LIMIT |
| :--- | :--- | :--- |
| Size | $>1 \mathrm{~mm} \mathrm{\times 1mm}$ | $<1 \mathrm{~mm} \mathrm{\times 1} \mathrm{~mm}$ |
| Height | 1 mm to 5 mm | 0.25 mm to 10 mm |
| Fiber Diameters | $80 \mu \mathrm{~m}$ to $250 \mu \mathrm{~m}$ | $80 \mu \mathrm{~m}$ to $250 \mu \mathrm{~m}$ |
| Center－to－Center Accuracy | 100 nm | 50 nm |
| Diameter Accuracy | $\pm 1.5 \mu \mathrm{~m}$ | $\pm 1.0 \mu \mathrm{~m}$ |

