

V-Groove Arrays

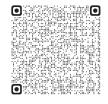


Features

- High accuracy and consistency Accumulative pitch tolerance within ±1µm for 96CH
- Variable V-grooves with new levels of flexibility allowing different pitches and angles to be implemented within the same array
- · Integrated mechanical positioning support
- Compatible pitch alignment with corresponding microlens arrays
- Fully customizable V-Groove patterns, including concave and convex designs
- Ideal for flexible, multiple channel designs and large-scale production

Application Scenarios

Optical modules, fiber connectors, PLC splitters in FTTX networks, AWGs in WDM systems, and further multi-channel scenarios





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Key Specifications

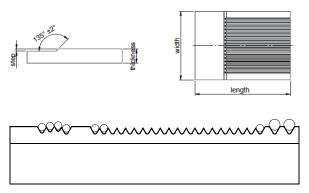
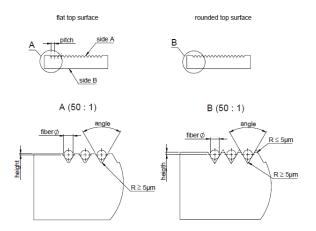


Illustration of complex design examples only. Please contact us for technical support on your configuration.



Borofloat 33, Fused Silica, S-TIH53, S-BSL7 (and equivalent such as N-BK7), Si Ceramics and other non-toxic optical glasses on request
0.4 - 300 mm ± 0.025 mm (typ.)
± 0.05 mm (typ.)
≥ 0.1 mm ± 0.02 mm (typ.)
Fully customizable without limitation
± 0.002 mm (typ.) **
0.127mm, 0.250mm or customized, single pitch tolerance *** ± 350 nm
≤ 500nm (typ.)
Up to 96, or customized, > 96 on request
≥ 60° (typ.), 90° or customized (typ. tolerance ≤ 2°)
≤ 0.1mm for outer dimensions; minimized in functional structure by "no sharp edges" design

Notes:

- * Parameters are influencing each other please contact us for further information or exceeding specifications.
- ** Scattering of the height deviations of the fiber centers in relation to an edge
- *** Specification for single pitch error or from V-groove to V-groove.