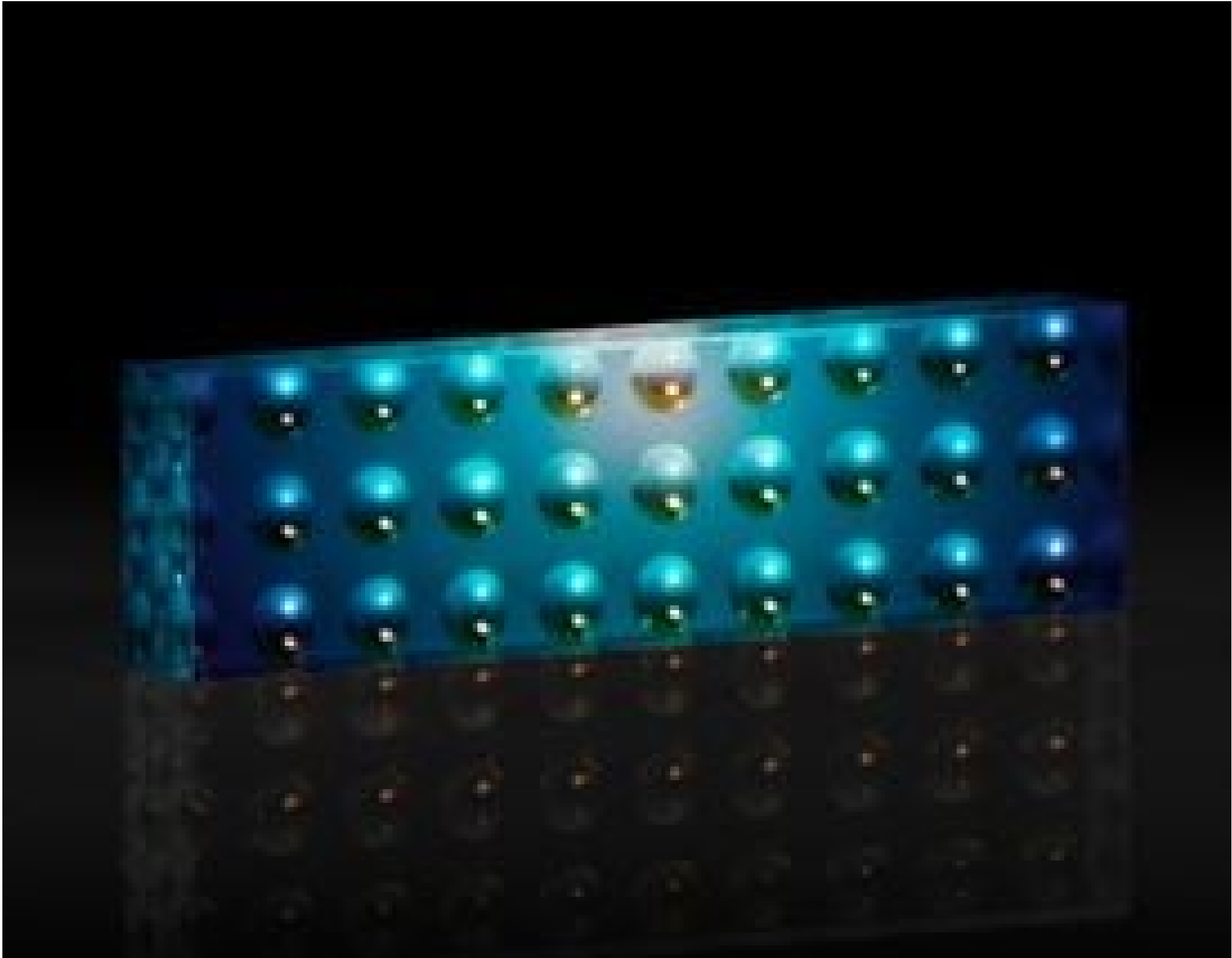


[See all 12 Products in Family](#)

## 2.45 x 0.70mm, 1.076 ROC, 250µm Pitch, Silicon, 1 x 8 Linear Microlens Array



#21-175, 7.30 x2.05mm, 0.575 ROC, 750µm Pitch, 1 x8 Linear Microlens Array

Stock **#21-177** [CONTACT US](#)

-

1

+

S\$179<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | S\$179.00 each                |
| Qty 11-25      | S\$162.00 each                |
| Qty 26-49      | S\$153.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                                                                            |               |
|------------------------------------------------------------------------------------|---------------|
| 1 x8 Linear Array                                                                  | Type:         |
| Spherical                                                                          | Lens Profile: |
| Note:<br>Linear arrays are centered on the part and surrounded by inactive lenses. |               |

| Physical & Mechanical Properties     |                                     |
|--------------------------------------|-------------------------------------|
| 0.23 (of each lens)                  | Diameter (mm):                      |
| 0.14 (of each lens)                  | Clear Aperture CA (mm):             |
| 2.45 x 0.70 ±0.02                    | Dimensions (mm):                    |
| 1.076 ±3%                            | Radius R (mm):                      |
| 0.50 ±0.025                          | Thickness (mm):                     |
| Optical Properties                   |                                     |
| Silicon                              | Substrate: <input type="checkbox"/> |
| BBAR (1250-1620nm)                   | Coating:                            |
| 1250 - 1620                          | Wavelength Range (nm):              |
| R <sub>avg</sub> ≤0.5% @ 1250 - 1620 | Coating Specification:              |
| 1310                                 | Design Wavelength DWL (nm):         |
| 250 ±0.3                             | Pitch (µm):                         |
| 0.286                                | Working Distance (mm):              |
| Source: 0.0092<br>Target: 0.08       | Mode Field Diameter (mm):           |
| Regulatory Compliance                |                                     |
| <a href="#">View</a>                 | Certificate of Conformance:         |

## Product Details

- Fused Silica and Silicon Substrates
- 1x4 and 1x8 Lens Array Configurations
- Ideal for Fiber Coupling and Collimating

Linear Microlens Arrays are available in fused silica and silicon substrates with linear arrays of either 4 or 8 lenses. Silicon has a high index of refraction, enabling short focal length, high-NA lens array designs, while fused silica offers excellent thermal stability and visible transmission to facilitate easy alignment. Linear Microlens Arrays are used to collimate and couple fiber arrays in fiber-to-fiber or laser-to-fiber applications, such as with semiconductor laser diodes. These lenses are AR coated for the near-infrared (NIR) with designs for 1310 and 1550nm, making them ideal for use with NIR lasers or in telecommunications.

## Technical Information

| LINEAR MICROLENS ARRAYS |                  |                       |                        |              |                     |                     |
|-------------------------|------------------|-----------------------|------------------------|--------------|---------------------|---------------------|
| MFD, Source (μm)        | MFD, Target (μm) | Working Distance (μm) | Design Wavelength (nm) | Substrate    | Stock No. 1x4 Array | Stock No. 1x8 Array |
| 10.4                    | 85               | 15 in air, 10 in glue | 1550                   | Fused Silica | #21-172             | #21-173             |
| 9.2                     | 250              | 600                   | 1550                   | Fused Silica | #21-174             | #21-175             |
| 9.2                     | 80               | 286                   | 1310                   | Silicon      | #21-176             | #21-177             |
| 10.4                    | 250              | 1143                  | 1550                   | Silicon      | #21-178             | #21-179             |
| 9.2                     | 25               | 1202                  | 1310                   | Silicon      | #21-180             | #21-181             |
| 3.0                     | 250              | 304                   | 1310                   | Silicon      | #21-182             | #21-183             |

Source; eg. PIC, laser diode, fiber

MLA

Working Distance

Coupling distance

MLA

Receiver; eg. fiber

Fiber

MFD<sub>source</sub>

MFD<sub>target</sub>

**MFD = Mode Field Diameter**