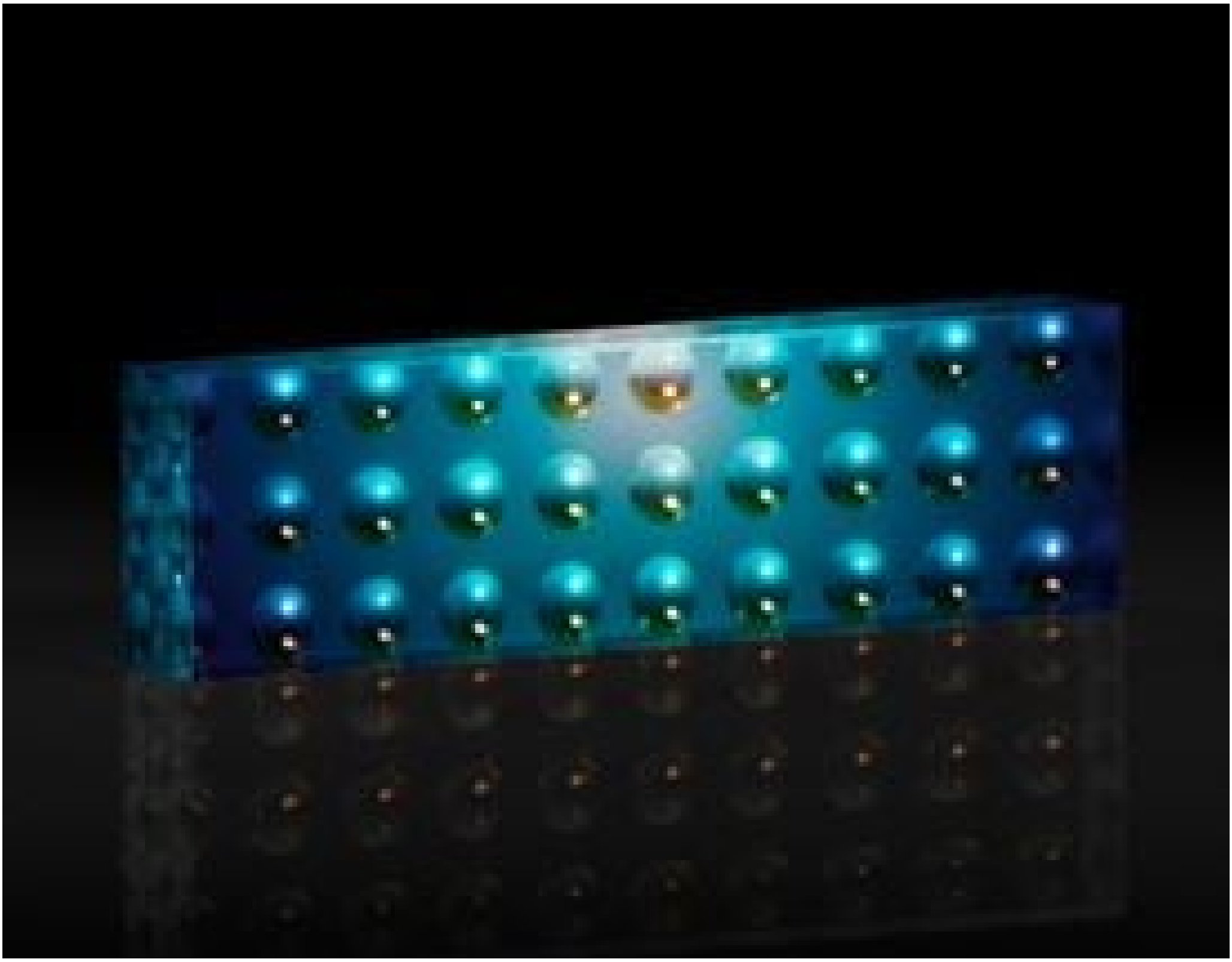
See all 12 Products in Family

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



#21-175, 7.30 x 2.05mm, 0.575 ROC, 750µm Pitch, 1 x 8 Linear Microlens Array

Stock **#21-177** **1 In Stock**

- 1 + **C$198**.80

ADD TO CART

Volume Pricing	
Qty 1-10	**C$198.80** each
Qty 11-25	**C$179.20** each
Qty 26-49	**C$169.40** each
Need More?	Request Quote

Product Downloads

General

Type:

1 x 8 Linear Array

Lens Profile:

Spherical

Note:

Linear arrays are centered on the part and surrounded by inactive lenses.

Physical & Mechanical Properties

Diameter (mm):
0.23 (of each lens)

Clear Aperture CA (mm):
0.14 (of each lens)

Dimensions (mm):
2.45 x 0.70 ±0.02

Radius R (mm):
1.076 ±3%

Thickness (mm):
0.50 ±0.025

Optical Properties

Substrate:
Silicon

Coating:
BBAR (1250-1620nm)

Wavelength Range (nm):
1250 - 1620

Coating Specification:
R_{avg} ≤0.5% @ 1250 - 1620

Design Wavelength DWL (nm):
1310

Pitch (µm):
250 ±0.3

Working Distance (mm):
0.286

Mode Field Diameter (mm):
Source: 0.0092
Target: 0.08

Regulatory Compliance

Certificate of Conformance:
View

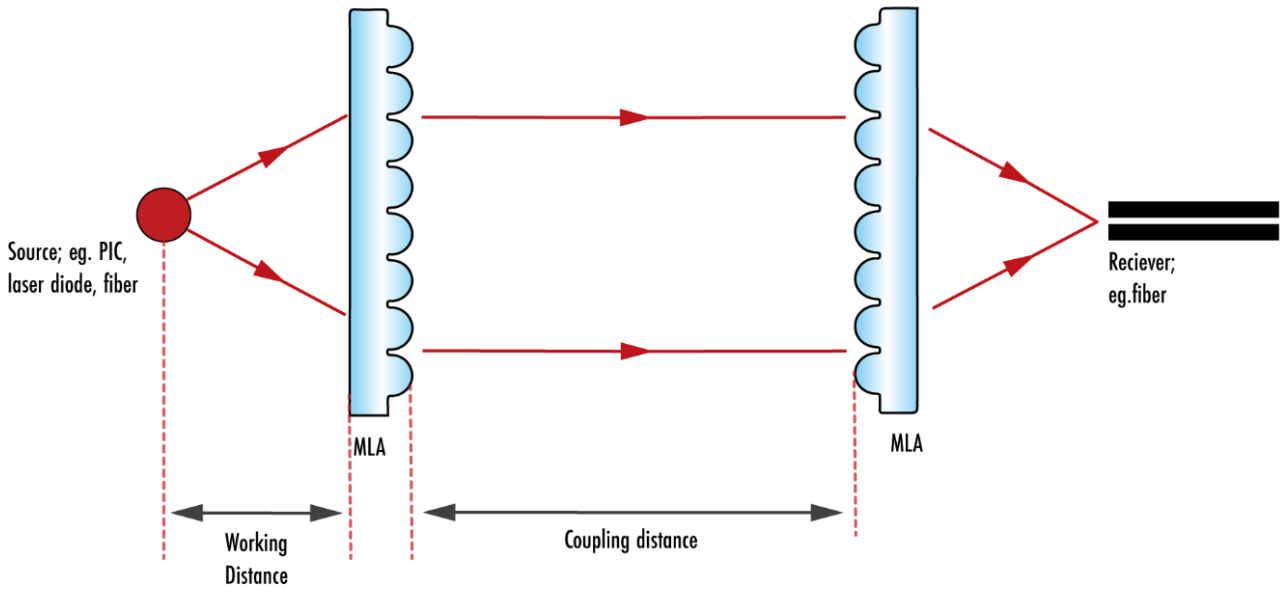
Product Details

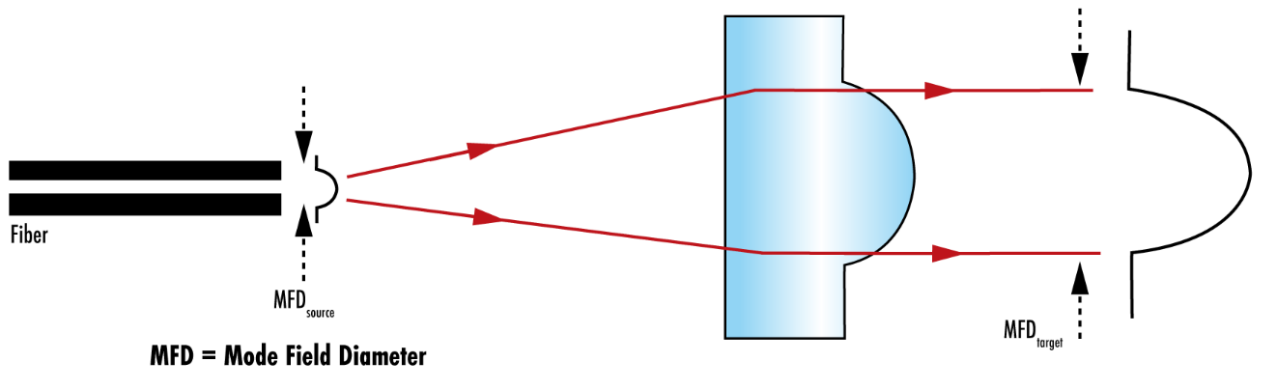
- Fused Silica and Silicon Substrates
- 1x4 and 1x8 Lens Array Configurations
- Ideal for Fiber Coupling and Collimating

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**





MFD = Mode Field Diameter

;