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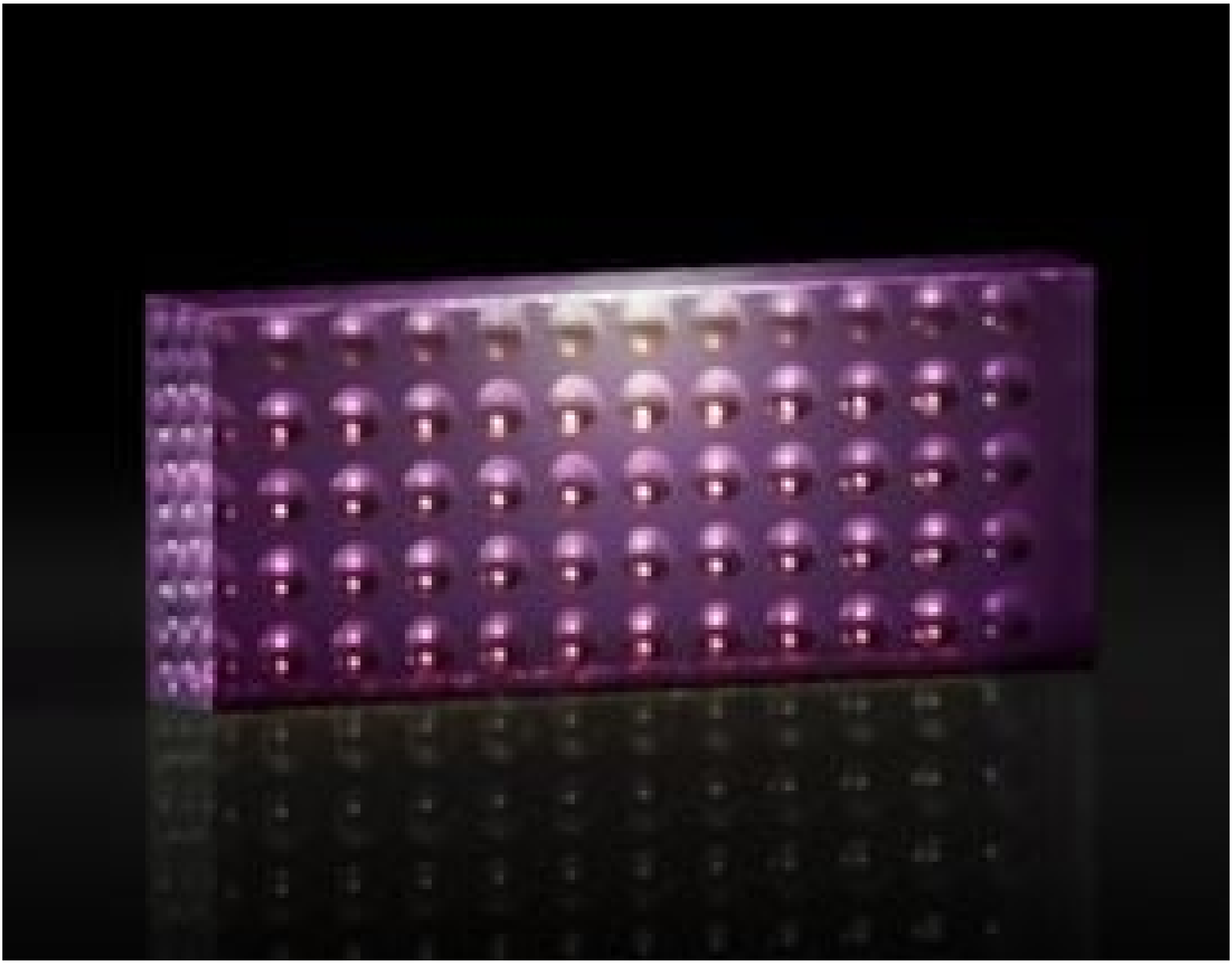
2.05 x 1.30mm, 0.192 ROC, 250µm Pitch, Fused Silica, 1 x 4 Linear Microlens Array



#21-183, 7.45 x 2.20mm, 1.119 ROC, 750µm Pitch, 1 x 8 Linear Microlens Array

Stock **#21-172** **1 In Stock**

- 1 + **C$172.20**

ADD TO CART

Volume Pricing	
Qty 1-10	**C$172.20** each
Qty 11-25	**C$155.40** each
Qty 26-49	**C$147.00** each
Need More?	Request Quote

Product Downloads

General

Type:
1 x 4 Linear Array

Lens Profile:
Spherical

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

Physical & Mechanical Properties

Diameter (mm):	0.18 (of each lens)
Clear Aperture CA (mm):	0.14 (of each lens)
Dimensions (mm):	2.05 x 1.30 ±0.05
Radius R (mm):	0.192 ±3%
Thickness (mm):	0.60 ±0.01

Optical Properties

Substrate:	Fused Silica (Corning 7980)
Coating:	BBAR (1260-1675nm), Lens Side
Wavelength Range (nm):	1260 - 1675
Coating Specification:	R_{avg} ≤0.3% @ 1260 - 1675
Design Wavelength DWL (nm):	1550
Pitch (µm):	250 ±0.3
Working Distance (mm):	0.01 in glue (n_d = 1.5) 0.015
Mode Field Diameter (mm):	Source: 0.0104 Target: 0.085

Regulatory Compliance

Certificate of Conformance:	View

Product Details

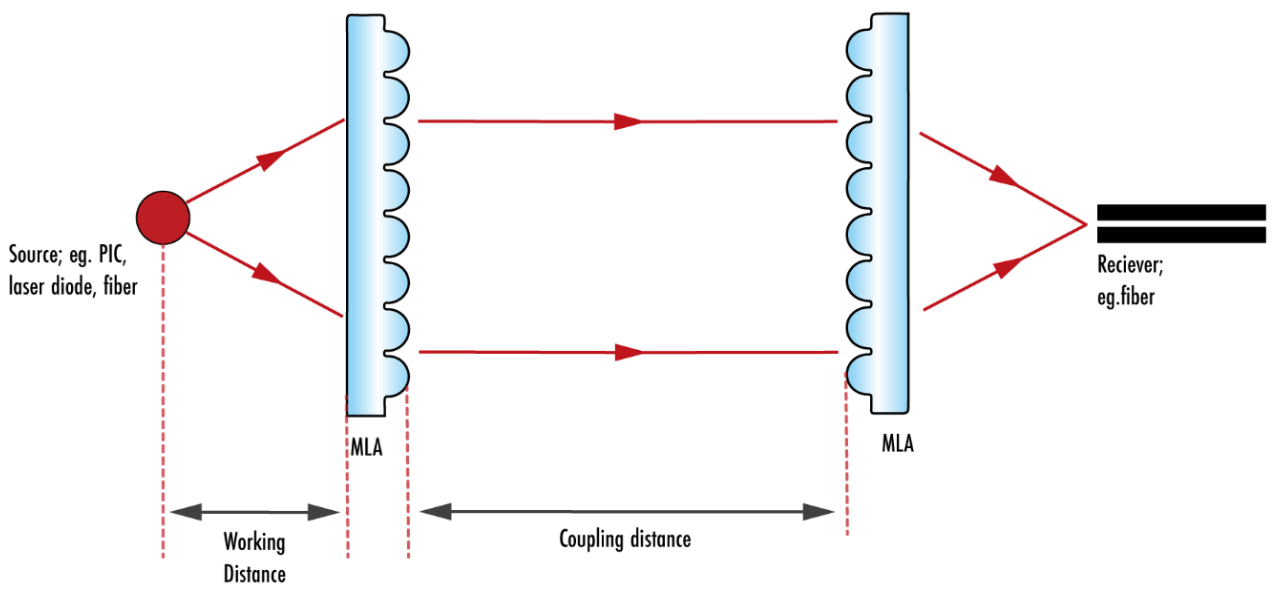
- Fused Silica and Silicon Substrates
- 1x4 and 1x8 Lens Array Configurations
- Ideal for Fiber Coupling and Collimating

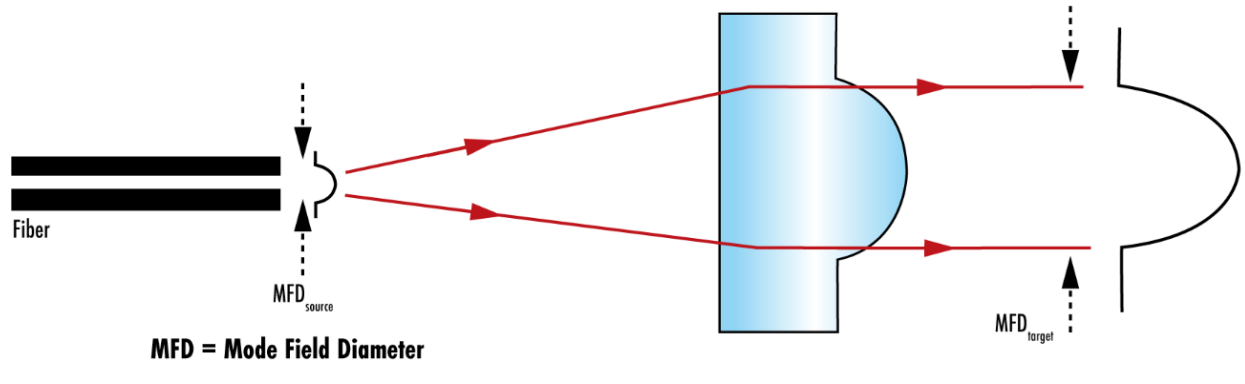
Linear Microlens Arrays are available in fused silica and silicon substrates with linear arrays of either 4 or 8 lenses. Silicon has a high index of refraction, enabling short focal length, high-NA lens array designs, while fused silica offers excellent thermal stability and visible transmission to facilitate 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





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