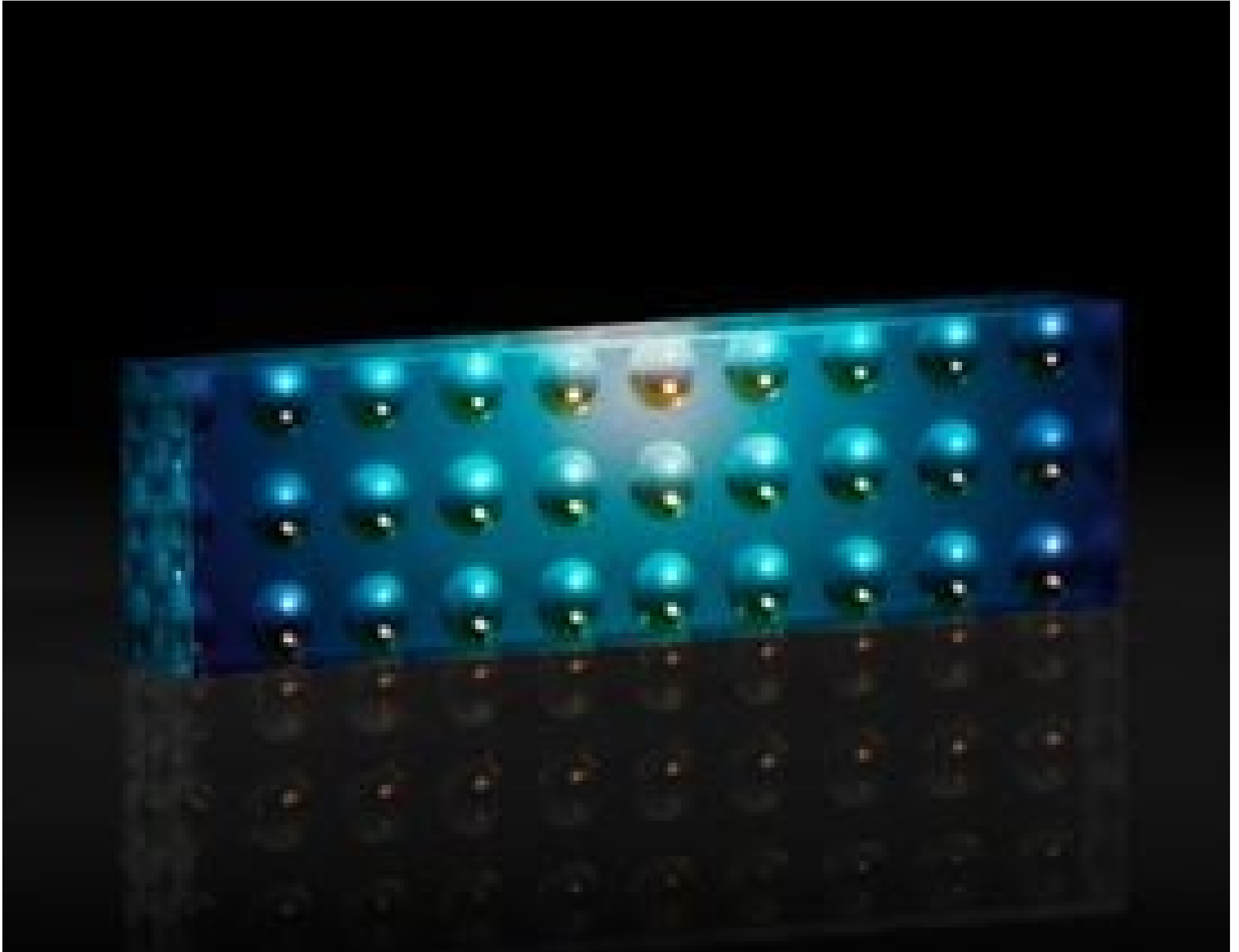


## 3.05 x 1.30mm, 0.192 ROC, 250µm Pitch, Fused Silica, 1 x 8 Linear Microlens Array



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

Stock #21-173 3-4 DAYS

⊖ 1 ⊕ £96<sup>00</sup>

**ADD TO CART**

Qty 1-10

£96.90

Qty 11+

£87.55

Volume Pricing

[Request Quote](#)

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

## SPECIFICATIONS

### 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):**

0.18 (of each lens)

**Clear Aperture CA (mm):**

0.14 (of each lens)

**Dimensions (mm):**

3.05 x 1.30 ±0.05

**Thickness (mm):**

0.60 ±0.01

**Optical Properties****Substrate:** [Fused Silica](#) (Coming 7980)**Coating:**

BBAR (1260-1675nm), Lens Side

**Wavelength Range (nm):**

1260 - 1675

**Coating Specification:**R<sub>avg</sub> ≤ 0.3% @ 1260 - 1675**Design Wavelength DWL (nm):**

1550

**Pitch (μm):**

250 ±0.3

**Radius R (mm):**

0.192 ±3%

**Working Distance (mm):**0.01 in glue (n<sub>d</sub> = 1.5)

0.015

**Mode Field Diameter (mm):**

Source: 0.0104

Target: 0.085

**Regulatory Compliance****RoHS:**[Compliant](#)**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

MFD, Source ( $\mu\text{m}$ )	MFD, Target ( $\mu\text{m}$ )	Working Distance ( $\mu\text{m}$ )	Design Wavelength (nm)	Substrate	Stock No. 1x4 Array	Stock No. 1x8 Array
10.4	85	15 in air, 10 in glue	1550	Fused Silica	<a href="#">#21-172</a>	<a href="#">#21-173</a>
9.2	250	600	1550	Fused Silica	<a href="#">#21-174</a>	<a href="#">#21-175</a>
9.2	80	286	1310	Silicon	<a href="#">#21-176</a>	<a href="#">#21-177</a>
10.4	250	1143	1550	Silicon	<a href="#">#21-178</a>	<a href="#">#21-179</a>
9.2	25	1202	1310	Silicon	<a href="#">#21-180</a>	<a href="#">#21-181</a>
3.0	250	304	1310	Silicon	<a href="#">#21-182</a>	<a href="#">#21-183</a>

