

## Optical Component Catalog

*OEM and Prototype Manufacturing*

www.optisourcellc.com / sales@optisourcellc.com Ph:505-792-0277 / Fax:505-792-0281



### **Waveplates**

- Crystal Quartz
- Mica

### **Windows**

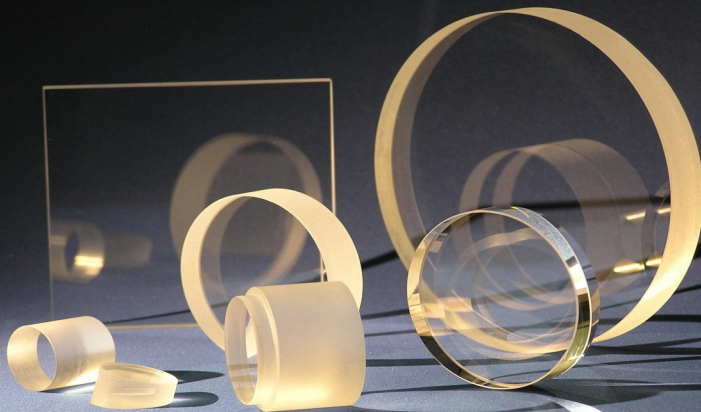
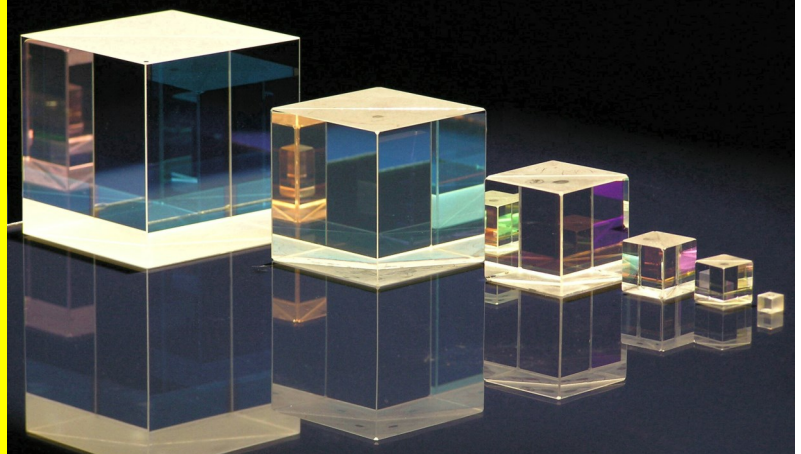
- Parallel
- Wedged
- Square / Rectangular

### **Mirrors**

- Dielectric
- Metal
- Plano
- Spherical

### **Lenses**

### **Prisms**



### **Beamsplitters**

- Cube
- Plate

### **Polarizers**

- Cube
- Plate



---

## Welcome to OptiSource, LLC

### ***A letter from our GM***

***We appreciate the opportunity to showcase our products for you and look forward to providing the solution to your component needs.***

After familiarizing yourself with our services and product offerings, we hope your next step will be to place an order with our company. We believe you will become another of a growing number of satisfied customers partnering with OptiSource, LLC, currently in our second decade of operations.

OptiSource, LLC is a small manufacturer of prototype and OEM quantities of optical components. Because of our size, we are able to incorporate many of the advantages and amenities associated with a larger company (i.e. a wide array of in-stock inventory) without the downside of dealing with the bureaucracies inherent in big companies.

The OptiSource staff is knowledgeable—150+ years of experience in all facets of sales, coating, fabrication and assembly of precision optical components.

Our smaller size affords us the advantage of maintaining a low overhead. Low overhead plus a skilled staff that multi-tasks, equals significant cost savings that we pass along to our customers.

We have developed a level of flexibility in our manufacturing environment not usually found in a larger company. This flexibility allows our manufacturing team to respond to your individual needs more effectively while still maintaining our OEM schedules.

As a user or buyer, you talk directly to the people who know the status of your order. They will give you a prompt assessment of your order status.

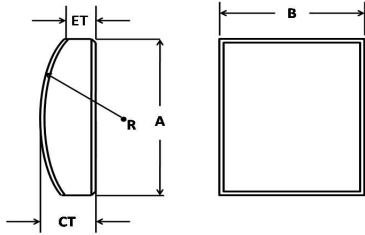
Having the components to successfully complete your project(s) and deliver your product is a direct measure of our performance. Place your order. Give us a chance to partner with you. You'll be convinced of our commitment to your success.

Thank you,

Greg Woodhouse  
General Manager  
OptiSource, LLC

# Cylindrical BK-7 Plano-Convex Lenses

Product Code: CLCX-BK



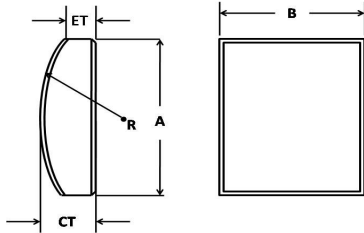
Substrate Materials: BK-7  
 Diameter Tolerance:  $+0.000 / -0.005$ " [ $+0.000 / -0.127$ mm]  
 Thickness tolerance:  $\pm 0.010$ " [ $\pm 0.25$ mm]  
 Focal length tolerance:  $\pm 0.5\%$   
 Concentricity:  $< 3$  arc minutes  
 Surface Quality : 20-10  
 Surface Figure:  $\lambda/4$  for X direction  
 $\lambda/2$  for Y direction  
 Clear Aperture:  $\geq$  central 85% of diameter

- Customer specified antireflection coatings are available.
- Non-standard lenses are also available, but require a quotation for price and delivery. Please contact OptiSource, LLC Technical Sales for all of your non-standard requirements.
- **Focal length is nominal at 1064nm.**

| Part Number       | X (mm) | Y (mm) | R (mm) | Nominal f (mm) | ET (mm) | CT (mm) |
|-------------------|--------|--------|--------|----------------|---------|---------|
| CLCX-1005-12.7-BK | 25.4   | 12.7   | 6.57   | 12.7           | 3.0     | 7.9     |
| CLCX-1005-19.1-BK | 25.4   | 12.7   | 9.82   | 19.1           | 3.0     | 5.3     |
| CLCX-1010-50.8-BK | 25.4   | 25.4   | 26.3   | 50.8           | 3.0     | 6.4     |
| CLCX-1010-100-BK  | 25.4   | 25.4   | 51.7   | 100            | 3.0     | 4.6     |
| CLCX-1010-500-BK  | 25.4   | 25.4   | 258.5  | 500            | 3.0     | 3.3     |
| CLCX-1010-1000-BK | 25.4   | 25.4   | 517.0  | 1000           | 3.0     | 3.2     |
| CLCX-2010-25.4-BK | 50.8   | 25.4   | 13.1   | 25.4           | 3.0     | 12.8    |
| CLCX-2010-38.1-BK | 50.8   | 25.4   | 19.7   | 38.1           | 3.0     | 7.6     |
| CLCX-2010-50.8-BK | 50.8   | 25.4   | 26.3   | 50.8           | 3.0     | 6.3     |
| CLCX-2010-76.2-BK | 50.8   | 25.4   | 39.4   | 76.2           | 3.0     | 5.1     |
| CLCX-2010-100-BK  | 50.8   | 25.4   | 51.7   | 100            | 3.0     | 4.6     |
| CLCX-2020-100-BK  | 50.8   | 50.8   | 51.7   | 100            | 3.0     | 9.7     |
| CLCX-2020-200-BK  | 50.8   | 50.8   | 103.4  | 200            | 3.0     | 6.2     |
| CLCX-2020-500-BK  | 50.8   | 50.8   | 258.5  | 500            | 3.0     | 4.3     |
| CLCX-2020-1000-BK | 50.8   | 50.8   | 517.0  | 1000           | 3.0     | 3.7     |

# Cylindrical UV Fused Silica Plano-Convex Lenses

Product Code: CLCX-UV



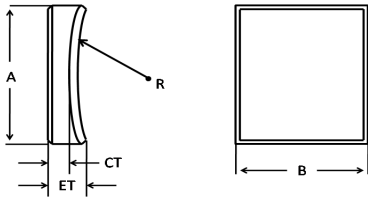
Substrate Materials: UV Fused Silica  
 Diameter Tolerance: +0.000 /-0.005" [+0.000/-0.127mm]  
 Thickness tolerance: +/-0.010" [+/-0.25mm]  
 Focal length tolerance: +/-0.5%  
 Concentricity: < 3 arc minutes  
 Surface Quality : 20-10  
 Surface Figure:  $\lambda/4$  for X direction  
 $\lambda/2$  for Y direction  
 Clear Aperture:  $\geq$  central 85% of diameter

- Customer specified antireflection coatings are available.
- Non-standard lenses are also available, but require a quotation for price and delivery. Please contact OptiSource, LLC Technical Sales for all of your non-standard requirements.
- **Focal length is nominal at 1064nm.**

| Part Number       | X (mm) | Y (mm) | R (mm) | Nominal f (mm) | ET (mm) | CT (mm) |
|-------------------|--------|--------|--------|----------------|---------|---------|
| CLCX-1010-50.8-UV | 25.4   | 25.4   | 23.4   | 50.8           | 3.0     | 6.4     |
| CLCX-1010-100-UV  | 25.4   | 25.4   | 46.0   | 100            | 3.0     | 4.7     |
| CLCX-1010-500-UV  | 25.4   | 25.4   | 230.0  | 500            | 3.0     | 3.3     |
| CLCX-1010-1000-UV | 25.4   | 25.4   | 460.0  | 1000           | 3.0     | 3.2     |
| CLCX-2010-38.1-UV | 50.8   | 25.4   | 17.5   | 38.1           | 3.0     | 7.5     |
| CLCX-2010-50.8-UV | 50.8   | 25.4   | 23.4   | 50.8           | 3.0     | 6.4     |
| CLCX-2010-76.2-UV | 50.8   | 25.4   | 35.1   | 76.2           | 3.0     | 5.2     |
| CLCX-2010-100-UV  | 50.8   | 25.4   | 46.0   | 100            | 3.0     | 4.1     |
| CLCX-2020-100-UV  | 50.8   | 50.8   | 46.0   | 100            | 3.0     | 9.8     |
| CLCX-2020-200-UV  | 50.8   | 50.8   | 92.0   | 200            | 3.0     | 6.6     |
| CLCX-2020-500-UV  | 50.8   | 50.8   | 230.0  | 500            | 3.0     | 3.7     |
| CLCX-2020-1000-UV | 50.8   | 50.8   | 460.0  | 1000           | 3.0     | 3.2     |

# Cylindrical BK-7 Plano-Concave Lenses

Product Code: CLCC-BK



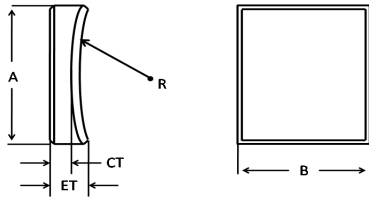
Substrate Materials: BK-7  
 Diameter Tolerance: +0.000 /-0.005" [+0.000/-0.127mm]  
 Thickness tolerance: +/-0.010" [+/-0.25mm]  
 Focal length tolerance: +/-0.5%  
 Concentricity: < 3 arc minutes  
 Surface Quality : 20-10  
 Surface Figure:  $\lambda/4$  for X direction  
 $\lambda/2$  for Y direction  
 Clear Aperture:  $\geq$  central 85% of diameter

- Customer specified antireflection coatings are available.
- Non-standard lenses are also available, but require a quotation for price and delivery. Please contact OptiSource, LLC Technical Sales for all of your non-standard requirements.
- **Focal length is nominal at 1064nm.**

| Part Number       | X (mm) | Y (mm) | R (mm) | Nominal f (mm) | CT (mm) | ET (mm) |
|-------------------|--------|--------|--------|----------------|---------|---------|
| CLCC-1005-12.7-BK | 25.4   | 12.7   | 6.57   | -12.7          | 6.0     | 9.6     |
| CLCC-1005-25.4-BK | 25.4   | 12.7   | 13.1   | -25.4          | 6.0     | 7.4     |
| CLCC-1010-50.8-BK | 25.4   | 25.4   | 26.3   | -50.8          | 6.0     | 9.4     |
| CLCC-1010-100-BK  | 25.4   | 25.4   | 51.7   | -100           | 6.0     | 7.6     |
| CLCC-1010-500-BK  | 25.4   | 25.4   | 258.5  | -500           | 6.0     | 6.3     |
| CLCC-1010-1000-BK | 25.4   | 25.4   | 517.0  | -1000          | 6.0     | 6.2     |
| CLCC-2010-25.4-BK | 50.8   | 25.4   | 13.1   | -25.4          | 6.0     | 7.7     |
| CLCC-2010-38.1-BK | 50.8   | 25.4   | 19.7   | -38.1          | 6.0     | 10.7    |
| CLCC-2010-50.8-BK | 50.8   | 25.4   | 26.3   | -50.8          | 6.0     | 9.4     |
| CLCC-2010-76.2-BK | 50.8   | 25.4   | 39.4   | -76.2          | 6.0     | 8.2     |
| CLCC-2010-100-BK  | 50.8   | 25.4   | 51.7   | -100           | 6.0     | 7.6     |
| CLCC-2020-100-BK  | 50.8   | 50.8   | 51.7   | -100           | 6.0     | 12.7    |
| CLCC-2020-200-BK  | 50.8   | 50.8   | 103.4  | -200           | 6.0     | 9.2     |
| CLCC-2020-500-BK  | 50.8   | 50.8   | 258.5  | -500           | 6.0     | 7.3     |
| CLCC-2020-1000-BK | 50.8   | 50.8   | 517.0  | -1000          | 6.0     | 6.6     |

# Cylindrical UV Fused Silica Plano-Concave Lenses

Product Code: CLCC-UV



Substrate Materials: UV Fused Silica  
 Diameter Tolerance: +0.000 /-0.005" [+0.000/-0.127mm]  
 Thickness tolerance: +/-0.010" [+/-0.25mm]  
 Focal length tolerance: +/-0.5%  
 Concentricity: < 3 arc minutes  
 Surface Quality : 20-10  
 Surface Figure:  $\lambda/4$  for X direction  
 $\lambda/2$  for Y direction  
 Clear Aperture:  $\geq$  central 85% of diameter

- Customer specified antireflection coatings are available.
- Non-standard lenses are also available, but require a quotation for price and delivery. Please contact OptiSource, LLC Technical Sales for all of your non-standard requirements.
- **Focal length is nominal at 1064nm.**

| Part Number       | X (mm) | Y (mm) | R (mm) | Nominal f (mm) | CT (mm) | ET (mm) |
|-------------------|--------|--------|--------|----------------|---------|---------|
| CLCC-1010-50.8-UV | 25.4   | 25.4   | 23.4   | -50.8          | 3.0     | 4.1     |
| CLCC-1010-100-UV  | 25.4   | 25.4   | 46.0   | -100           | 3.0     | 4.7     |
| CLCC-1010-500-UV  | 25.4   | 25.4   | 230.0  | -500           | 3.0     | 3.3     |
| CLCC-1010-1000-UV | 25.4   | 25.4   | 460.0  | -1000          | 3.0     | 3.2     |
| CLCC-2010-38.1-UV | 50.8   | 25.4   | 17.5   | -38.1          | 3.0     | 7.8     |
| CLCC-2010-50.8-UV | 50.8   | 25.4   | 23.4   | -50.8          | 3.0     | 6.5     |
| CLCC-2010-76.2-UV | 50.8   | 25.4   | 35.1   | -76.2          | 3.0     | 5.3     |
| CLCC-2010-100-UV  | 50.8   | 25.4   | 46.0   | -100           | 3.0     | 4.7     |
| CLCC-2020-100-UV  | 50.8   | 50.8   | 46.0   | -100           | 4.5     | 11.6    |
| CLCC-2020-200-UV  | 50.8   | 50.8   | 92.0   | -200           | 4.5     | 7.9     |
| CLCC-2020-500-UV  | 50.8   | 50.8   | 230.0  | -500           | 4.5     | 5.9     |
| CLCC-2020-1000-UV | 50.8   | 50.8   | 460.0  | -1000          | 4.5     | 4.6     |