

# C-Lens

## Product Description

C-lens are specifically designed for fiber optics applications such as collimator, isolator, switch, collimator array and laser assembly. Compare to other gradient index lens, C-lens have several advantages including low cost, low insertion loss in long working distance, and wide working distance range. With our experienced optical design engineers, we can also provide custom designed C-lens per customer's requirement.

## Performance Specifications

C- Lens				Unit
Lens Diameter Tolerance	$\Phi 1.80$	+0.05	-0.01	mm
	$\Phi 1.00$	+0.00	-0.01	
Maximum Pitch	0.23 or 0.25			P
Transmission	>99%			
Polarization Preservation	0.99 (no stress)			
Coating	R<0.25% @(design wavelength)+/-40			nm
Lens Length (Z) Tolerance	$\pm 0.03$			mm
Diameter Range	> $\Phi 1.0$			mm
Wedge Tolerance	$\pm 0.3^\circ$			
Ellipticity	3			$\mu\text{m}$
Lens Material	glass like schott series			
Young's modulus	6,000 - 8,000			Kgf/m <sup>2</sup>
Thermal Expansion Coefficient	82-92x10 <sup>-7</sup> /°C			
Operating Temperature	400°C x 1000			hours
Humidity (AR coated)	85°C - 85% RH 1000			hours

## Features

- Low Insertion Loss
- Low Cost
- Cylindrical Surface Quality

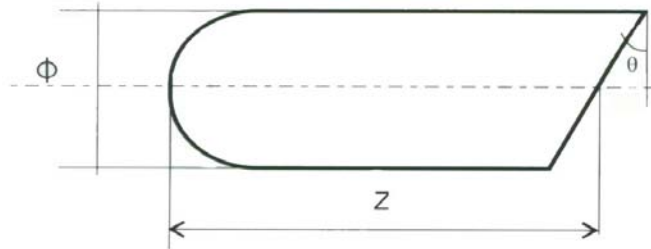
## Applications

- Collimator
- Isolator
- Switch
- EMS
- Collimator Array
- Laser Assembly



# C - Lens

## Dimensions



## Surface Quality

Pinholes/ Paricles	Defects greater than 30um indiameter are not allowed. Defects greater than 10um indiameter are allowed. Up to three defects with diameter between 10um and 30um are allowed.
Scratches	Scrathes wider than 5um are not allowed. Scratches wider than 2um are allowed. Up to three scraches with 5um max width and 200um max length are allowed.
Chips	Chips are not allowed within the concentric are of 90% of the lens diameter.

## Ordering Information

CLENS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Diameter (mm)	Pitch	Wavelength(nm)	Coating	Angle
	11	1=1 1.8=2	0.22=2 0.23=3 0.24=4 0.25=5	1550=5 1310=3 1410=4 650=6 750=7 850=8 950=9	A	8=1 Special=0