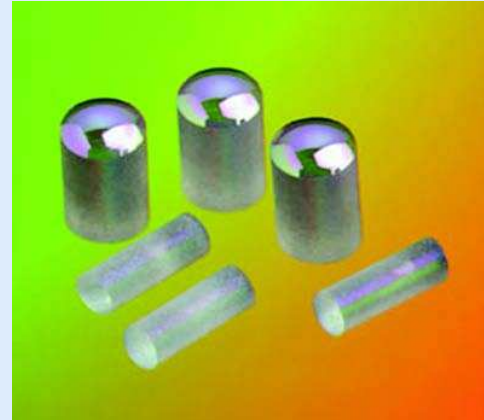


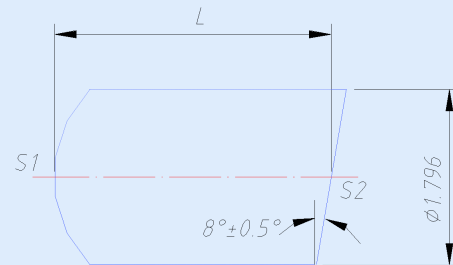
C-Lens

A C-lens has the same function as a GRIN-lens. It can be used for a wide range of applications such as fiber collimators, isolators and circulators.

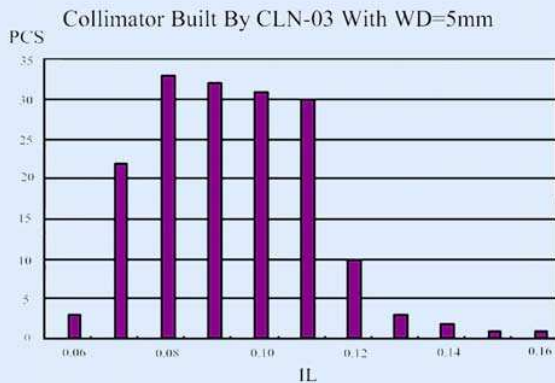


Specifications:

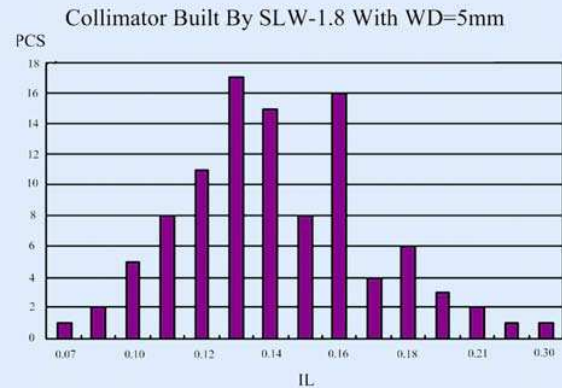
- Lens Material** Glass-like material
- Max. Operating Temperature** 400°C
- Transmission** >99% (900 to 1700nm)
- Hygroscopic Susceptibility** None
- Polarization Preservation** >0.99
- Acid and Alkaline Resistance** Excellent
- Thermal Expansion Coefficient** $<6 \times 10^{-6}/^{\circ}\text{C}$
- Maximum Power** >500mW
- Surface Quality** 20-10 scratch and dig
- AR and AR Coated**



Comparison between C-collimator and G-collimator



Total amount of samples = 168pcs
 Mean IL = 0.094dB
 Standard deviation of the measure IL = 0.018

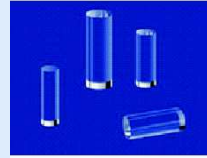


Total amount of samples = 100pcs
 Mean IL = 0.143dB
 Standard deviation of the measure IL = 0.032

C-lens collimators show better insertion loss and better consistency when compared with GRIN-lens collimators.

GRIN-Lens

A GRIN-lens is used to focus and collimate light sources. It is widely used in both active and passive fiber optic components, MEMs and imaging systems.



Physical Parameters:

- Lens Material** Special oxide glass
- Max. Operating Temperature** $\leq 350^{\circ}\text{C}$
- Lens Diameter Tolerance** $+0.005/-0.010\text{mm}$
- Lens Length (Z) Tolerance**

 - Adjusted to $\sqrt{\lambda}$ Variation $\leq 2.5\%$
 - Machining and Polishing Tolerance $0/-0.04\text{mm}$

- Minimum Lens Length**

 - Non-coated 1.0mm
 - AR-coated 2.3mm

- Ellipticity** $\leq 5\mu\text{m}$
- Thermal Expansion Coefficient** $10 \times 10^{-6}/^{\circ}\text{C}$

Optical Specifications:

- Transmittance** ... $\geq 89\%$, 400-2000nm wavelength range
- Maximum Pitch** $0.5P, Z=2\pi/\sqrt{\lambda}$
- Lens Effective Diameter** 60-70%
- Constant $\sqrt{\lambda}$ Tolerance**

 - Within same icon exchange batch $\leq 0.75\%$
 - Between icon exchange batches $\leq 2.5\%$