

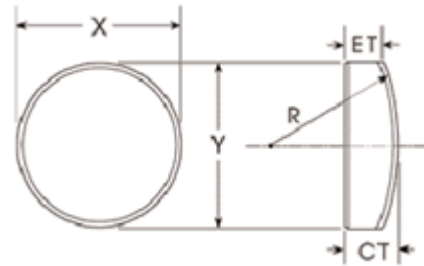
# ZINC SELENIDE(ZnSe) PLANO-CONVEX LENSES

These plano-convex lenses are manufactured CVD grown Zinc Selenide. They have a low absorption in the infra-red. Positive focusing Zinc Selenide lenses are perfect for thermal imaging and Carbon Dioxide laser focusing applications.

We supply uncoated but a range of anti-reflection coatings can be applied as well for CO2 laser applications.

## Standard Specifications:

Optical Material:	Laser Grade CVD Zinc Selenide
Diameter Tolerance:	+0.0, -0.15mm
Design Wavelength:	10.6um
Design Index:	2.4028 at 10.6um
Paraxial Focal Length:	±2%
Centration:	3 arc minutes
Clear Aperture:	>85%
Surface Quality:	40-20 scratch and dig
Wavefront Distortion:	lambda/2 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



## Standard Zinc Selenide Plano-Convex Lenses:

Dia(mm)	f(mm)	R1(mm)	tc(mm)	te(mm)	Product Number
15.20	38.10	53.45	2.9	2.0	UQT-PLCXZ0401
20.00	50.80	71.26	2.9	2.0	UQT-PLCXZ0402
20.00	63.50	89.08	2.9	2.0	UQT-PLCXZ0403
25.40	38.10	53.45	4.5	3.0	UQT-PLCXZ0404
25.40	63.50	89.08	3.9	3.0	UQT-PLCXZ0405
25.40	76.20	107.93	3.8	3.0	UQT-PLCXZ0406
28.00	50.80	71.26	4.4	3.0	UQT-PLCXZ0407
28.00	63.50	89.08	4.1	3.0	UQT-PLCXZ0408
28.00	127.00	178.15	3.5	3.0	UQT-PLCXZ0409
38.10	63.50	89.08	8.0	6.0	UQT-PLCXZ0410
38.10	76.20	107.93	7.7	6.0	UQT-PLCXZ0411
38.10	127.00	178.15	7.0	6.0	UQT-PLCXZ0412
38.10	190.50	267.23	6.7	6.0	UQT-PLCXZ0413
50.80	127.00	178.15	9.8	8.0	UQT-PLCXZ0414
50.80	190.50	267.23	9.2	8.0	UQT-PLCXZ0415

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

## NOTES!

- ➔ ZnSe reacts readily with acidic substances, generating toxic selenium oxide gas. Never clean with acidic washing solutions.

- ➔ Note that ZnSe is classified as a toxic material by law. Transactions involving ZnSe or products incorporating ZnSe require a certificate of transfer.
- ➔ Disposal of ZnSe optics as general waste is prohibited. Please notify us if you need to dispose of such products. (Ultiquest Technologies products only.)
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.