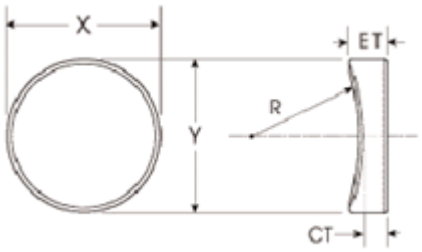
SAPPHIRE PLANO-CONCAVE LENSES

Sapphire has excellent transmittance from the ultraviolet to the mid-infrared, it exhibits high thermal conductivity, and it has very high surface hardness, making it more resistant to scratches than BK7 or fused silica.

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

Standard Specifications:

Optical Material:	Optical grade Sapphire Crystal
Diameter Tolerance:	+0.0, -0.15mm
Design Wavelength:	546.10nm
Design Index:	1.7710 at 546.10nm
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 Sapphire Plano-Concave Lenses:

Dia(mm)	f(mm)	R1(mm)	tc(mm)	te(mm)	Fb(mm)	Product Number
5.0	-5.0	3.86	2.0	2.9	-3.9	UQT-PLCAS0201
10.0	-10.0	7.71	2.0	3.8	-8.9	UQT-PLCAS0202
10.0	-20.0	15.42	2.0	2.8	-18.4	UQT-PLCAS0203
10.0	-25.0	19.28	2.0	2.7	-23.5	UQT-PLCAS0204
20.0	-50.0	38.55	2.0	3.3	-48.1	UQT-PLCAS0205
20.0	-100.0	77.10	2.0	2.7	-98.5	UQT-PLCAS0206
20.0	-150.0	115.65	2.0	2.4	-148.6	UQT-PLCAS0207
20.0	-200.0	154.20	2.0	2.3	-198.7	UQT-PLCAS0208

Please Contact ultiQuest for other dimensions in prototype and production quantities.

NOTES!

- The edge thicknesses fare theoretical values not including chamfer.
- Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.