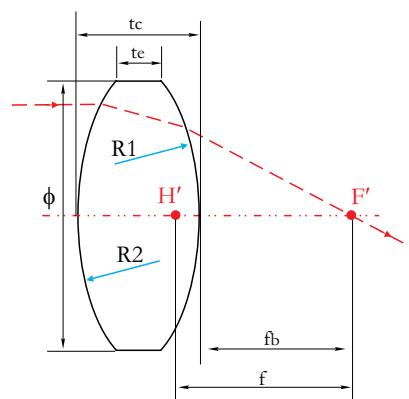


Double-Convex Lens

Applications:

- Beam Expanders
- Projection Optics Systems
- Optical Viewers
- Optical Character Readers



Capability

Attribute	Commercial	High Precision
Typical Material	BK7, Fused Silica, Silicon	BK7, Fused Silica, Silicon
Typical Dimension ϕ (mm)	10, 15, 20, 25.4	10, 15, 20, 25.4
Diameter Tolerance (mm)	+0.00/-0.2	+0.00/-0.05
Focus Length Tolerance (mm)	Typical +/-2% @633nm	Typical +/-2% @633nm
Centration (arc min.)	Typical <3	Typical <3
Surface Figure (per 25mm@632.8nm)	1/4	$\lambda/10$
Surface Quality (scratch/dig)	60-40	10-5
Bevel (face width x 45° mm)	0.2~0.5	0.05~0.2
Coating	Wavelength: customer specified, Reference to pages 65-75 Single wavelength AR: $R \leq 0.25\%$ per surface Broadband AR: $R \leq 0.5\%$ per surface	

