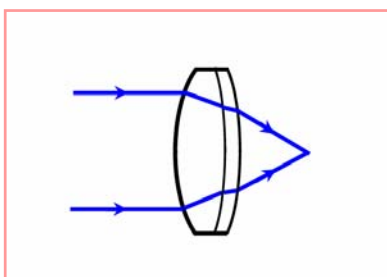


# Achromatic Doublets



Achromatic doublets are the simplest form of compound lens. They consist of two elements of different refractive index, which are cemented together to provide a positive focal length imaging lens.

Achromats are corrected for on-axis chromatic and spherical aberration making them good for broadband collimation and focusing.



These achromatic doublets are made from either crown and flint optical glasses.

They are supplied coated or with a single layer anti-reflection coating suitable for the visible (400 - 600 nm) or the near infra-red (600 - 1200 nm).

A wide range of focal lengths and diameters are available. Here is a list of some of the most common sizes (in mm):

<u>Diameter</u>	<u>Focal Lengths</u>
3.0	4.5, 6
5.0	7.5, 10, 15, 20
6.0	10, 20, 30
6.3	10, 15, 20
10.0	20, 30
12.7	15, 20, 25, 50, 75, 100
19.1	25, 30, 40, 50, 60, 75, 125
20.0	40, 50, 60
25.4	30, 40, 50, 60, 75, 100, 125, 150, 175, 200, 250, 300, 400
30.0	50, 75, 90
38.1	150, 200, 300
40.0	120, 250
50.8	400, 500

Please ask for other sizes and focal lengths as we can supply a wide selection of these lenses.

<b>Typical Specifications</b>	
Material:	Crown & Flint Glasses
Focal length:	± 2%
Diameter:	+0.0 / -0.2 mm
Centre Thickness:	± 0.25 mm
Centration:	< 3 arcmin
Surface accuracy:	λ/4 @ 633 nm
Surface quality:	40/20
Clear aperture:	> 85% of diameter

**To request a quote or to order, please specify:**

Quantity — Diameter — Focal Length — Coating (VIS-NIR)

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For a quotation — please phone, fax or email us with details of your requirements.