

Double-Convex Lenses

Product Description:

Double-Convex Lenses have two outward surfaces with a positive focal length.

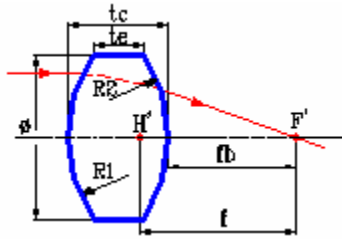
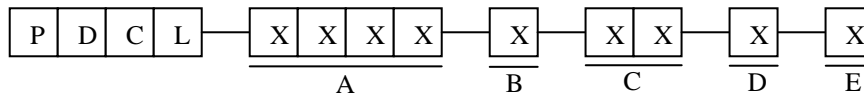


Figure 1: A schematic drawing of a double-convex lens

Specifications:

Material	BK7 or Fused Silica
Design Wavelength	546.1 nm
Diameter Tolerance	+0.0, -0.15 mm
Paraxial Focal Length Tolerance	± 2% @ 546.1 nm
Centering Tolerance	3 arc minutes
Clear Aperture	> 85%
Bevel	0.25mm X 45°
Surface Quality	40~20
AR coating	Specified by customer

Ordering Information:



A	Wavelength	630=0630nm
		1310=1310nm
		XXXX=Your application wavelength
B	Material	1=BK7
		2=Fused Silica
		0=Special

C	Size	01=20.0X12.7X20.01X4.0X2.0X18.6
		Check standard size table for standard size
		00=Custom size
D	AR Coating	1=yes
		0=no
E	Mount	1=Yes
		0=no

Standard Size Table (Material: BK7)

Dimension P/N	f (mm)	φ (mm)	R1=-R2 (mm)	tc (mm)	te (mm)	fb (mm)
01	20.0	12.7	20.01	4.0	2.0	18.6
02	25.0	12.7	25.28	3.6	2.0	23.8
03	30.0	12.7	30.52	3.3	2.0	28.9
04	40.0	12.7	40.95	3.0	2.0	39.0
05	25.4	25.4	24.71	9.0	2.0	22.2
06	35.0	25.4	35.09	6.8	2.0	32.8
07	40.0	25.4	40.40	6.1	2.0	37.9
08	50.0	25.4	50.92	5.2	2.0	48.3
09	60.0	25.4	61.40	4.7	2.0	58.5
10	75.0	25.4	77.04	4.1	2.0	73.6
11	100.0	25.4	103.5	3.6	2.0	98.8
12	125.0	25.4	129.02	3.3	2.0	123.9
13	150.0	25.4	154.97	3.0	2.0	149.0
14	200.0	25.4	206.84	2.8	2.0	199
15	250.0	25.4	258.70	2.6	2.0	249.1
16	300.0	25.4	310.55	2.5	2.0	299.2
17	400.0	25.4	413.80	2.4	2.0	399.0
18	500.0	25.4	517.91	2.3	2.0	499.2
19	750.0	25.4	774.30	2.3	2.0	748.8
20	1000.0	25.4	1036.23	2.2	2.0	999.3