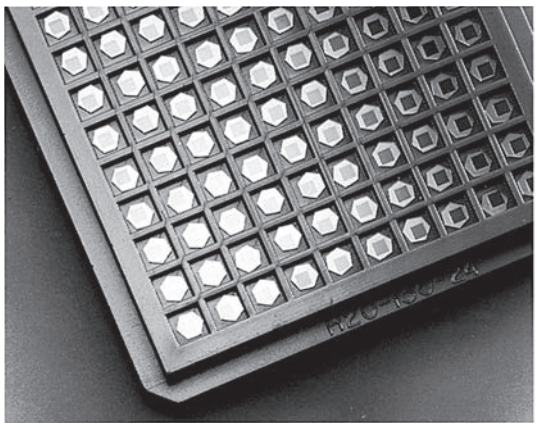
Laser Diode Cover Glass

Laser diode cover glass is a high-quality glass (ABC-G) precisely finished into the shape of a hexagon. It is used for the windows of laser diodes (LDs) and also light emitting diodes (LEDs).



Features

- Cover glass for laser diodes and light emitting diodes is coated with specific AR coatings (type A: 405nm; type B: 650nm; type C: 780nm; type D: 1300nm; type E: 1550nm; type F: 650 and 780nm) to provide 99% min. transmission of the wavelength of emitted light.

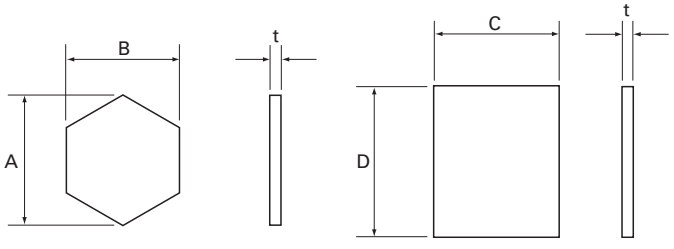
Properties

Properties/Item			ABC-G
Coefficient of thermal expansion	30-380°C	$\times 10^{-7}$/K	38
Strain point		°C	650
Refractive index (n_d)			1.52
Density		$\times 10^3$kg/m^3	2.46

Dimensional (example)

(mm)

Length					Thickness	
A	B	C	D	Tolerance	t	Tolerance
2.5-10	$\frac{\sqrt{3}}{2}$A	2-10	2-10	± 0.05	0.25, 0.3	± 0.05



Type	Wavelength (nm)	Transmittance (%)
A	405	99min.
B	650	99min.
C	780	99min.
D	1300	99min.
E	1550	99min.
F	650	99min.
	780	99min.

AR coating with an application-specific wavelength is available upon request.

Part No.

Hexagon

$\frac{A}{2}$ — t(6) P-AR

- $\frac{A}{2}$: Side of hexagon
- t(6): Thickness
- (6): Shape
- P-AR: Specification of AR coating

Rectangular

C × D × t P-AR

- C: Shorter side
- D: Longer side
- t: Thickness
- P-AR: Specification of AR coating