

THz Super Lens

Model: Tsurupica-RR /-R /-S

Terahertz Super lens (Tsurupica™) has extremely higher transmission and lower absorption at the wavelength of VIS and THz than conventional material such as polyethylene.

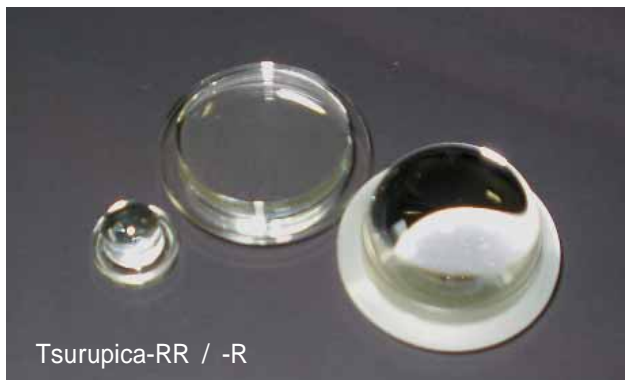
The lens is made of transparent material and has the same refractive index at both THz region and visible wavelength. So the beam propagation of invisible THz wave can be visualized and traceable by He-Ne laser. (See the transmission data below)

The second key feature is Tsurupica doesn't have the strong absorption that Polyethylene has at 72cm^{-1} , so this material is suitable for window of cryostat or bolometer.

Fresnel loss is also lower than that of Si substrate.

Tsurupica-RR & -R is optically and rough polished perfect tool for beam trace and *Tsurupica-S* is unpolished affordable THz lens. This lens is invented by Tera-Photonics Research Team Photo-Dynamics Research Center at RIKEN.

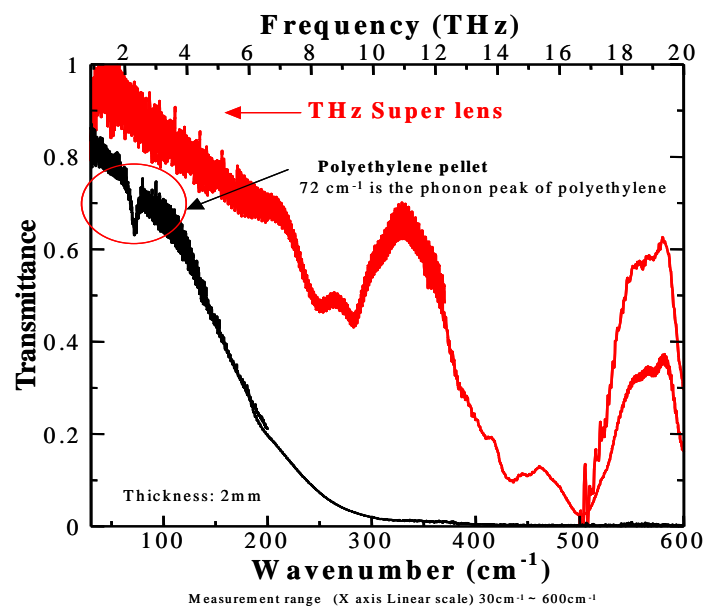
For further information, please contact ask@bblaser.com



Advantages & Features

- ★ Freq. Range: upto 12THz
- ★ No absorption at 72cm^{-1} (2.2 THz)
- ★ Same index of refractivity
 -) THz wave : 1.52
 -) Visible wave : 1.52
- ★ Suitable as windows of Bolometer & Cryostat
- ★ Aperture: upto 135mm as standard size
- ★ Concave, convex, Bi-convex, Bi-concave, Cylindrical, Aspheric, plates, ball lens, etc.

Transmission Data



For more information