

# Element Six B.V.

## CVD Diamond Windows for RF Application A unique solution for > 1MW CW Gyrotrons

Element Six is the world's leading developer and producer of technical solutions with diamond.

E6 solutions use the unique properties of both synthetic and natural diamond.

Diamond with its unique properties is an excellent solution for various RF challenges.

### Advantages

- $\tan \delta < 10 \times 10^{-5}$
- Therm Cond  $> 1800 \text{ W /m.K}$
- Tensile Strength 800 MPa (1 mm thick, Nucleation side)
- Very low CTE: 1 ppm/K
- Ultra high vacuum mounting (brazed mounting flanges)
- High radiation damage threshold limit

Available in sizes up to 120 mm diameter and 2.0 mm thickness.

### Contact

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[www.E6.com](http://www.E6.com)



elementsix™  
ADVANCING DIAMOND