

Tydex offers mirrors for applications where THz radiation has to be fully reflected.



The following THz mirrors are available from stock:

| No. | Diameter | | Thickness |
|-----|----------|--------|-----------|
| | mm | inches | mm |
| 1 | 25.4 | 1.0 | 6.35 |
| 2 | 38.1 | 1.5 | 6.35 |
| 3 | 50.8 | 2.0 | 6.35 |
| 4 | 76.2 | 3.0 | 6.35 |

Custom sizes are manufactured upon request. The finished parts of different dimensions are available from stock and supplied within a week. Please check the Optics stock at our website. For price quotation and delivery please fax or e-mail us

Common specification:

| Material of substrate | Quartz glass | |
|---|----------------|--|
| Туре | Plano-plano | |
| Dimensions tolerance, mm | +/-0.25 | |
| Clear aperture, % | >=90 | |
| Surface quality of polished surfaces, scr/dig | 40/20 | |
| Surface quality of ground surface, Ra | 2.5 | |
| Surface accuracy, λ@633nm | 1/2 | |
| Coating | Protected gold | |
| Thickness of gold layer, nm | ~400 | |

Typical reflection curve is shown below. Measurements were made up to $1000~\mu m$. However, operating wavelength range is much wider.

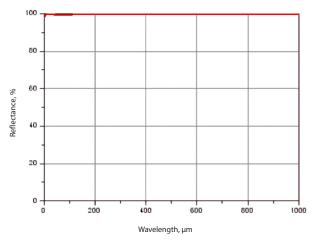


Fig.1 Reflection of THz mirror

Phone: 7-812-3318702

Fax: 7-812-3092958 **E-mail:** optics@tydex.ru