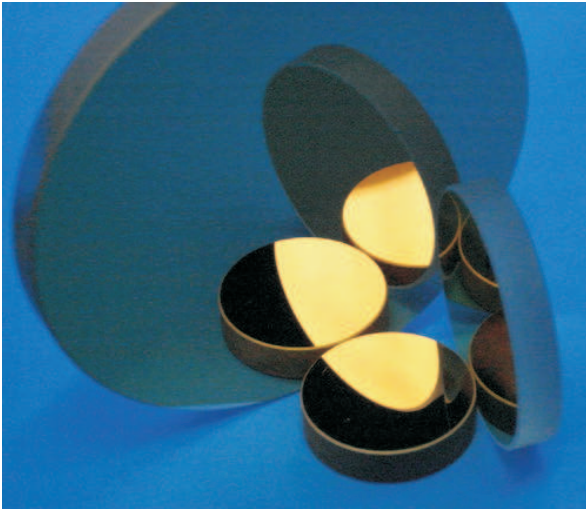


THz Mirrors

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
Type	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, $\lambda@633\text{nm}$	1/4
Coating	Protected gold
Thickness of gold layer, nm	~400

Typical reflection curve is shown below. Measurements were made up to 1000 μm . However, operating wavelength range is much wider.

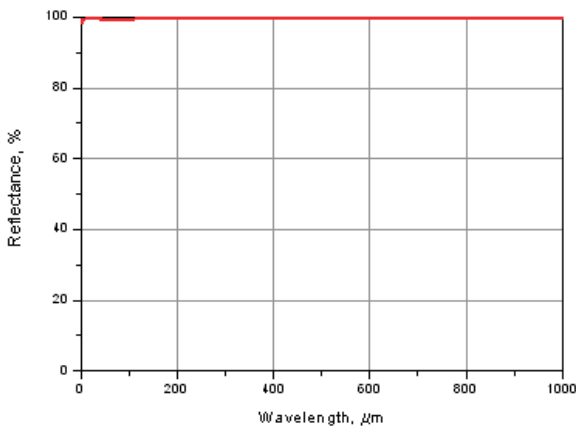


Fig. 1. Reflection of THz mirror.



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