



## Semiconductor Supermirrors

The excess mechanical losses, low thermal conductivity, and high mid-IR absorption of IBS-deposited interference coatings are key limitations in several application areas. In contrast to direct-deposited multilayers, the excellent opto-mechanical properties of substrate-transferred crystalline coatings represent a game-changing technology for applications in atomic clocks, gravitational wave detection, high power laser systems, broadband communication, LIDAR/laser ranging systems, and mid-IR spectroscopy.

### Benefits:

- Enables the direct integration of single-crystal films onto arbitrary, including curved, optical substrates, without the need for adhesives or intermediate films
- 10× lower Brownian noise in precision interferometry
- 30× higher thermal conductivity for improved heat dissipation in high power laser systems
- 10× lower mid-IR absorption

### Product picture:



### Contact:



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