

Phase Mirrors for intra laser cavity beam shaping

A Phase Mirror replaces a standard back mirror in the laser cavity. It is used to discriminate a mode with a particular shape from the other transversal resonant modes. The encoded phase is calculated to obtain a coherent phase conjugation between the two mirrors.

Specifications*

Substrate

<i>Diameter :</i>	up to 100 mm
<i>Thickness :</i>	from 0.5 mm to 9.5 mm
<i>Material :</i>	fused silica, BK7, ...
<i>Coating :</i>	R >99,98% at a specified λ , high flux.

Encoded Phase Map

<i>Data :</i>	Phase Map data provided by customer.
<i>Pixel size :</i>	down to 10 x 10 microns ²
<i>Encoded Phase Profile :</i>	etched multilevel profile (16, 32 or 64 levels)
<i>Wavefront PTV :</i>	0 to 2π

* Please contact us for other specifications

Phase Plates

Phase Plates are also available for transmission applications.

Fields

High power Laser applications

Category

Phase component

