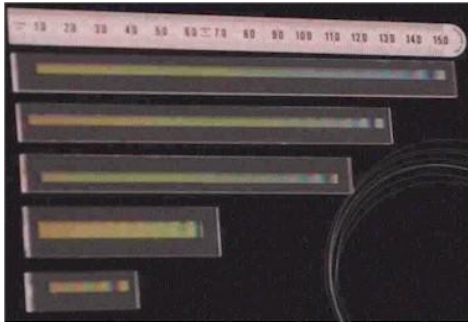


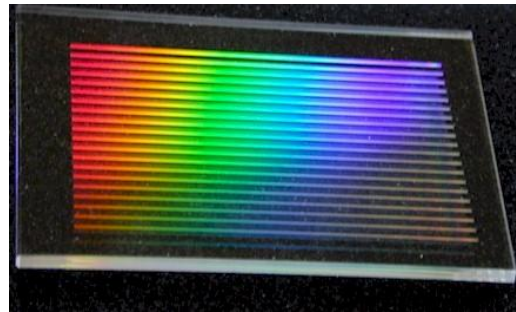
[OEFBG-PMP-100]

Phase Mask for Fiber Bragg Grating Fabrication



OEFBG-PMP-100S

Phase masks with single period,
different lengths



OEFBG-PMP-100M

Phase mask array with multiple periods,
one substrate

Features:

- Period accuracy of 0.1 pm
- Zero order < 5%
- Length of up to 170 mm
- Period down to 100 nm
- Uniform, chirped, phase shifted, superstructure
- Linear chirp, nonlinear chirp (dispersions β_2 , β_3 , β_4 , and β_5 , according to customer design)
- Optimized for 193 nm, 244 nm, 248 nm, 266 nm, 365 nm, 530 nm, 800 nm, 910 nm, 1030 nm, etc. illumination
- Affordable prices

Description:

We produce phase masks, with model number **OEFBG-PMP-100**, of up to 150 mm in length for Fiber Bragg Grating (FBG) fabrication.

Our phase mask products include uniform, chirped, phase shift, long phase mask and sample phase masks for DWDM filter, fiber sensor, dispersion compensation, gain flattening, laser diode stabilizer, waveguide and other applications.

Our product line covers a wide range from 300 nm to 5000 nm in grating period. Our unique fabrication technique guarantees an ultra-high precision period, a very low zero order and a very high uniformity comparable with holographic phase mask.

Types of Phase masks available:

Phase mask type	Description
Multi Phase Mask Array in one substrate	For DWDM-FBG, FBG Array fabrication
Multi Phase Shift Phase Mask	For up to 300 Phase Shifts in a Single-Phase Mask
Multi Position Phase Mask	For Sensor, Waveguide and Multi Wavelength FBG fabrication
Chirped Phase Mask	For Linear Chirp, Nonlinear Chirp, Arbitrary Chirp FBG fabrication
Nonlinear Chirp Phase Mask	For dispersions $\beta_2, \beta_3, \beta_4,$ and $\beta_5,$ according to customer design
Long Phase Mask	For FBG lengths up to 170 mm, for all available types
Different Illumination Wavelength	For illuminations at 248 nm, 193 nm, 530 nm, 800 nm, 910 nm, 1030 nm, etc.
High Quality Phase Masks	Our quality is comparable with holographic phase masks, but for a lesser cost

New types of Phase masks:

Phase mask type	Description
Multi Phase Mask Arrays	Phase mask for fabrication of DWDM-FBGs with 4 channels, 8 channels, or 16 channels, without need to change the phase mask. They feature 2, 4, 8, 16 phase masks with different periods in one substrate. The mask makes the setup of fiber grating fabrication very simple. Without changing the phase mask, 4 to 16 channels of fiber grating filters can be fabricated in one setup. This approach can save both time and money when writing large amounts of FBGs. It is particularly useful when writing several FBGs of different wavelengths in a single fiber.
Multi Phase Shift Phase Mask	Phase mask with up to 200 phase shifts. It gives fiber optics engineers great freedom of phase mask design. The multi-phase shift mask can be incorporated with chirped phase mask and uniform phase mask or even a combination of both.
Multi Position Phase Masks	Phase mask arrays in horizontal orientation, vertical orientation, or both. For example, if each of FBG of an array should be positioned with high precision along a fiber, the use of this mask can eliminate the alignment problem between each phase mask and the fiber and can provide you with the best solution. In another application, if a multi-wavelength fiber laser is to be made, this mask can facilitate significantly the fiber laser fabrication process.
Linear and Nonlinear Chirp Phase Masks	Phase mask with linear chirp, nonlinear chirp, customer specified high-order nonlinear chirp, dispersions $\beta_2, \beta_3, \beta_4,$ and $\beta_5.$ Provides high precision of dispersion amount control and fabrication.
High Density Chirp Phase Masks	Phase mask with high chirp rate, hard made conventional phase mask fabrication method.

Ordering information:

We maintain Phase Mask stock inventory, which is constantly increasing and updating. To check our current availability, please go to [Phase mask inventory](#) on our website.

Price discount is available for the Phase masks in stock. Certain conditions apply.