



**Technical
Data Sheet**

Precision High LIDT MPC Coatings
MPC / Broadband Femtosecond Multi-Pass Cell Laser Mirrors

**Short
Description**

Multipass cells (MPCs) are used as nonlinear tools to perform spectral broadening and temporal manipulation of laser pulses, while maintaining a good spatial quality and spatio-spectral homogeneity. These MPC mirrors are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves unique layer thickness precision. IBS provides the most dense, low loss, stable and durable optical coatings among the optical coating technologies.

**Design
Specifications**

Wavelength: range from 500 up to 2000nm
 Reflection: typically > 99,99%
 Angle of incidence: 0 to 10°
 LIDT: up to >1,0J/cm² depending on coating design
 GDD: 0 +/-50fs²
 Substrates: dia 2 inch to 4 inch
 flat or curved substrates

**Example
Design PR0430**

Type: MPC-965-1105-|50|-0°-R>99,995
 Reflection: R > 99,995% @ 965 - 1105nm
 AOI: 0°
 LIDT 1,185J/cm² (1030nm, 200fs, 1-on1*)
 GDD: +/- 50fs² @ 965 - 1105nm
 Substrates: dia 25,4x6,35mm² pl/pl

* apply safety margin for safe operation depending on pulse duration and pulse repetition rate

