



**Technical
Data Sheet**

Broadband 300nm LIDT-optimized Multi-Pass Cell (MPC) Mirror Pair

MPC Mirror Pair with 300 nm spectral width and net zero GDD supporting extreme ultra short femtosecond laser pulse compression.

**Short
Description**

Multipass cells (MPCs) are used for Nonlinear Spectral Broadening of ultrashort femtosecond laser pulses. The useful spectral width of these MPC mirrors is >300 nm which is achieved with a mirror pair, i.e. the combined group delay dispersion (GDD) reaches the GDD target of typically zero GDD for MPCs. The LIDT is optimized for the given spectral width.

These **MPC** mirrors are fabricated with NANEO's proprietary precision coating technology by IBS (Ion Beam Sputtering) with exceptional precision to support pulse compression down to the 10-20 fs range.

**Design
Properties**

Product numbers:	PR0452 (mirror A) + PR0453 (mirror B)
Wavelength range:	880 ... 1180 nm
Reflection (avg):	> 99,9
Angle of incidence:	2°
LIDT (fs pulses):	0.2J/cm ² (200 fs, 1030 nm, high repetition rate)
GDD target:	0 +/-30fs ² (880-1180nm)
Substrates, typ:	Plano, Dia 1" or Dia 2" with ROC upon request

Inquire for custom specifications!

Graph

This graph shows the measured GDD versus the GDD and Reflectivity design curves for the MPC Mirror Pair PR0452 + PR0453:

