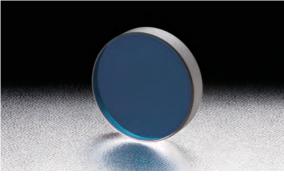
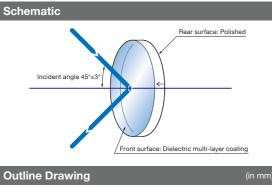




This mirror is designed to provide low wavelength dispersion suitable for use with ultra-short pulse lasers with 100 femtosecond or less.

- We have designed a special thin film coating that optimizes wavelength dispersion, range and the strength of lasers.
- It has the effect of suppressing the spread of the pulse width produced by a plurality of reflecting mirrors.
- There are three types available, FLM1 standard, FLM2 wide wavelength band, and FLMHP for high power femtosecond laser*.
- These mirrors are designed and produced for usage within the microscopy with femtosecond laser and optical systems with femtosecond time-resolved spectroscopy.





φD

 Tolerance Diameter $\phi D_{-0.1}^{+0}$ Thickness t ±0.1

Specifications					
Material	BK7 (FLM) Synthetic fused silica (FLMHP)				
Coating	Dielectric multi-layer coating				
Incident angle	45°±3°				
Surface Flatness	λ/10				
Parallelism	<5″				
Surface Quality (Scratch–Dig)	10–5				
Clear aperture	80% of Actual Aperture				
Rear Surface	Polished				

Guide

- dimensions other than those found in the catalog, please contact our
- Also available are our surface flatness guarantee (HTFM) mirrors with

Attention

When used in angles other than 45 degrees (AOI), we would not be able to guarantee the wavelength dispersion.

Low Dispersion Mirrors for Femtosecond Laser							
Part Number	Wavelength Range		Diameter øD	Thickness t	Reflectance	Laser Damage Thre	
	S polarization [nm]	P polarization [nm]	[mm]	[mm]	[%]	[J/cm ²]	
FLM1-12.7C05-800	720 – 900	760 - 840	φ12.7	5	>99.8	1	
FLM1-25.4C05-800	720 – 900	760 – 840	φ25.4	5	>99.8	1	
FLM1-30C05-800	720 – 900	760 – 840	φ30	5	>99.8	1	
FLM2-12.7C05-800	700 – 940	740 - 860	φ12.7	5	>99.8	0.5	
FLM2-25.4C05-800	700 – 940	740 – 860	φ25.4	5	>99.8	0.5	
FLM2-30C05-800	700 – 940	740 – 860	φ30	5	>99.8	0.5	

* Laser pulse width 50fs, wavelength 800nm

Low Dispersion Mirrors for High Power Femtosecond Laser								
Part Number	Waveleng S polarization [nm]	th Range P polarization [nm]	Diameter φD [mm]	Thickness t [mm]	Reflectance [%]	Laser Damage Threshold* [J/cm ²]		
FLMHP-12.7C05-800	745 – 855	775 – 825	φ12.7	5	>99	2		
FLMHP-25.4C05-800	745 – 855	775 – 825	φ25.4	5	>99	2		
FLMHP-30C05-800	745 – 855	775 – 825	φ30	5	>99	2		

* Laser pulse width 65fs, wavelength 800nm

Compatible Optic Mounts

MHG-MP12.7-NL / MHG-MP25-NL

- These low dispersion wavelength mirrors are available in physical Sales Division for Custom products.
- We can also provide high power negative dispersion mirror.
- accuracy guarantee after surface coating. Reference B016

MP25-NL, HS25-NL / MHG-MP30-NL, HS30-NL	

Optics & Optical Coatings

Application Systems

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Bases

Manual Stages

Actuators & Adjusters

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Light Sources & Laser Safety

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Beamsplitters Polarizers Lenses **Multi-Element Optics** Filters Prisms Substrates/Windows **Optical Data** Maintenance **Selection Guide** Super Mirror Femtosecond Lase

eshold'

Frameless Accuracy Guarantee

High Power

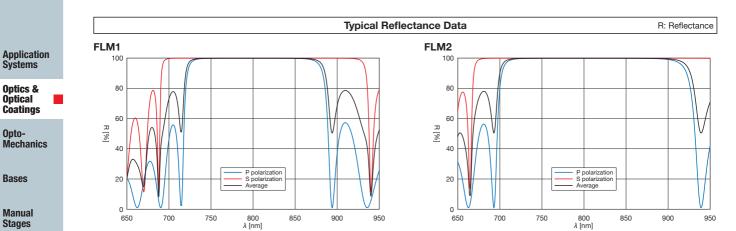
Ultra Broadband

Dielectric Coating

Aluminum Coating

Gold Coating

Low Dispersion Mirrors for Femtosecond Laser | FLM/FLMHP





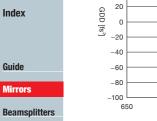
Bases

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FLM1

100

80

60

40

700

750

800 λ [nm]

850

900

950

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Super Mirror Femtosecond Lase

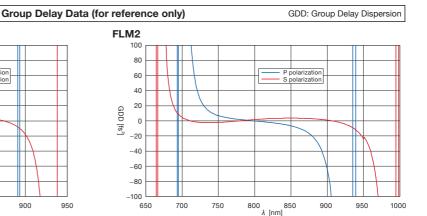
Frameless

Accuracy Guarantee **High Power** Ultra Broadband **Dielectric Coating**

Aluminum Coating Gold Coating



电话: 0755-84870203 网址: www.highlightoptics.com



Typical Reflectance Data R: Reflectance FLMHP 100 80 60 R [%] 40 P polarizatio S polarizatio 20 0 720 740 760 700 780 800 λ [nm] 820 840 860 880 900

WEB http://www.sigma-koki.com/ E-mail sales@sigma-koki.com