电话: 0755-84870203

网址: www.highlightoptics.com

TFMS

RoHS

Ultra Broadband Dielectric Mirrors

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Super Mirror

Femtosecond Laser Frameless

Accuracy Guarantee

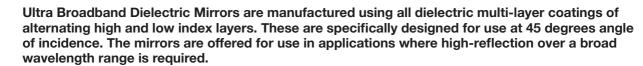
High Power

Illtra Broadband

Dielectric Coating

Aluminum Coating

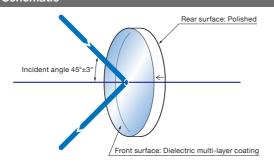
Gold Coating



- Visible, near infrared and multiple wavelengths are covered with a single mirror.
- These mirrors have many advantages over a metal mirror including very little deterioration with age and that it is durable and easy to clean and maintain.



Schematic



Outline Drawing	l (in mr	(in mm		
φD	•Tolerance Diameter φD:8,1 Thickness t±0.1			

Specifications	
Material	BK7
Coating	Dielectric multi-layer coating
Incident angle	45°±3°
Surface Flatness	λ/10
Parallelism	<3′
Surface Quality (Scratch-Dig)	40–20
Clear aperture	90% of Actual Aperture
Rear Surface	Polished

Guide

- ▶ Please consult our Sales Division for assistance in your selection and for customized products. (customized on outer diameter, wavelength characteristic, etc.) Please use the inquiry sheet. Reference B041
- Also available are our surface flatness guarantee (HTFM) mirrors with accuracy guarantee after surface coating. Reference B016

Attention

- ▶ Reflectance of dielectric mirrors will vary according to the polarization of the input beams.
- The un-coated rear surface of the mirror is polished and the arrow on the side of the substrate points towards the coated surface. Reflectance of laser line mirrors are different according to the polarization of input beams. S-Polarization has high reflectance with a wide reflective bandwidth compared with P-Polarization.
- The reflectance specification listed is at random polarization or (P-Polarization reflectance + S-Polarization reflectance) / 2.

Specifications					
Part Number	Wavelength Range [nm]	Diameter φD [mm]	Thickness t [mm]	Reflectance [%]	Laser Damage Threshold* [J/cm²]
TFMS-25.4C05-2/4	245 – 400	φ25.4	5	> Average 97	0.5
TFMS-30C05-2/4	245 – 400	φ30	5	> Average 97	0.5
TFMS-25.4C05-2/7	245 – 700	φ25.4	5	> Average 97	0.5
TFMS-30C05-2/7	245 – 700	φ30	5	> Average 97	0.5
TFMS-25.4C05-4/11	400 – 1100	φ25.4	5	> Average 98	0.5
TFMS-30C05-4/11	400 – 1100	φ30	5	> Average 98	0.5
TFMS-50C08-4/11	400 – 1100	φ50	8	> Average 98	0.5
TFMS-25.4C05-4/20	400 – 2000	φ25.4	5	> Average 98	0.5
TFMS-30C05-4/20	400 – 2000	φ30	5	> Average 98	0.5
TFMS-50C08-4/20	400 – 2000	φ50	8	> Average 98	0.5
TFMS-25.4C05-3/20	300 – 2000	φ25.4	5	> Average 97	0.5
TFMS-30C05-3/20	300 – 2000	φ30	5	> Average 97	0.5
TFMS-50C08-3/20	300 – 2000	φ50	8	> Average 97	0.5

^{*} Laser pulse width 10ns, wavelength 532nm, repetition frequency 20Hz

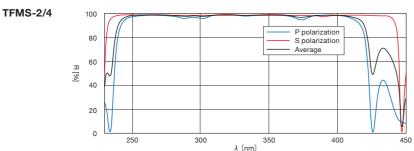


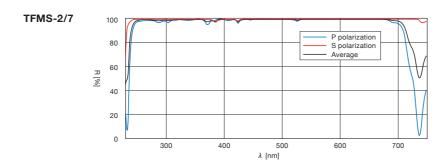
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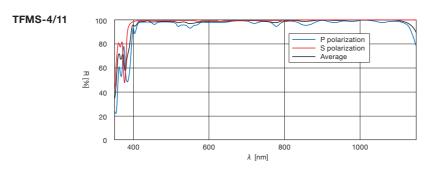


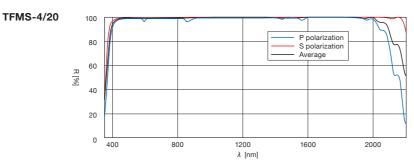


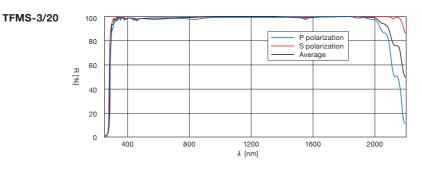












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Super Mirror Femtosecond Laser

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Compatible Optic Mounts

MHG-HS25-NL, -HS30-NL / MHG-MP50-NL / MHAN-25.4S, -30S, -50S