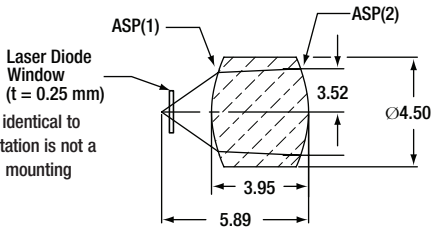
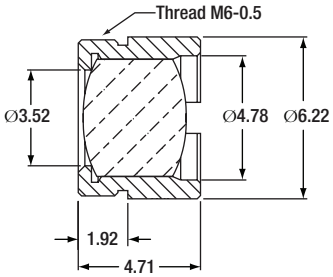
A414 f = 3.30 mm and 0.47 NA

Since ASP(1) is identical to ASP(2), lens orientation is not a concern when mounting



A414
Unmounted Lens



A414TM
Mounted Lens

All Dimensions are in millimeters
Laser Diode Window Not Included

Rochester Precision Molded Glass Aspheric Lens

Optical Design Specifications

- **Design Wavelength:** 670 nm
- **Numerical Aperture:** 0.47
- **Clear Aperture:** Ø3.52 mm
- **Effective Focal Length:** 3.30 mm
- **Unmounted Working Distance:** 1.94 mm
- **Mounted Working Distance:** 1.81 mm
- **Magnification:** Infinite
- **Laser Window Thickness:** 0.25 mm
- **Laser Window Material/Index:** N-BK7/1.514 @ 670 nm
- **Diffraction-Limited Range:** 610 – 740 nm
- **Surface Quality:** 40-20 Scratch-Dig
- **Glass (Hoya):** N-SF57

Aspheric Coefficients

	R	k	A_4	A_6	A_8	A_{10}
ASP (1)	4.37	0.7375985	-2.9258960E-03	-2.7938690E-04	-2.4618570E-05	8.2589900E-06
ASP (2)	-4.37	0.7375985	2.9258960E-03	2.7938690E-04	2.4618570E-05	-8.2589960E-06

Unmounted, AR-Coated Aspheric Lenses

ITEM #	$	£	€	RMB	DESCRIPTION
A414-A*	$ 81.55	£ 58.72	€ 70,95	¥ 649.95	Lens, AR-Coated: 350 – 700 nm
A414-B	$ 81.55	£ 58.72	€ 70,95	¥ 649.95	Lens, AR-Coated: 650 – 1050 nm
A414-C	$ 81.55	£ 58.72	€ 70,95	¥ 649.95	Lens, AR-Coated: 1050 – 1620 nm

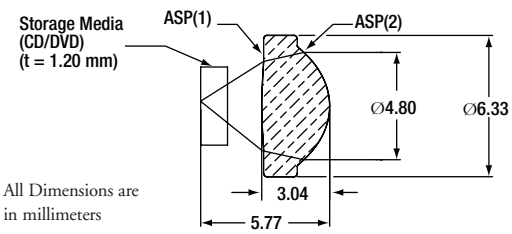
*For λ < 500 nm please see transmission data on page 716.

Mounted, AR-Coated Aspheric Lenses

ITEM #	$	£	€	RMB	DESCRIPTION
A414TM-A*	$ 86.55	£ 62.32	€ 75,30	¥ 689.80	Mounted Lens, AR-Coated: 350 – 700 nm
A414TM-B	$ 86.55	£ 62.32	€ 75,30	¥ 689.80	Mounted Lens, AR-Coated: 650 – 1050 nm
A414TM-C	$ 86.55	£ 62.32	€ 75,30	¥ 689.80	Mounted Lens, AR-Coated: 1050 – 1620 nm

*For λ < 500 nm please see transmission data on page 716.

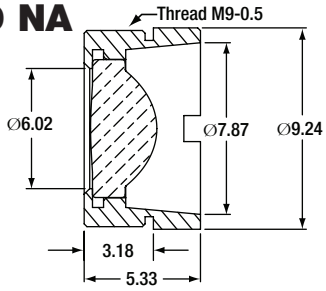
352610 f = 4.0 mm and 0.60 NA



All Dimensions are in millimeters

Please refer to our website for complete models and drawings.

352610
Unmounted Lens



C610TME
Mounted Lens

Application Note:
The 352610 and 352671 (see next page) lenses have been designed to work as a pair. The 352671 is for collimating, while the 352610 lens is for focusing.

Aspheric Coefficients

	R	k	A_4	A_6	A_8	A_{10}
ASP (1)	14.41	–	-3.9892954E-03	1.5009163E-04	-5.0538191E-06	–
ASP (2)	-2.77	-0.4324553	4.9872630E-04	4.5107023E-05	2.2185316E-06	–

Unmounted, AR-Coated Aspheric Lenses

ITEM #	$	£	€	RMB	DESCRIPTION
352610-A	$ 82.00	£ 59.04	€ 71,34	¥ 653.54	Lens, AR-Coated: 400 – 600 nm
352610-B	$ 82.00	£ 59.04	€ 71,34	¥ 653.54	Lens, AR-Coated: 600 – 1050 nm

Mounted, AR-Coated Aspheric Lenses

ITEM #	$	£	€	RMB	DESCRIPTION
C610TME-A	$ 87.00	£ 62.64	€ 75,69	¥ 693.39	Mounted Lens, AR-Coated: 400 – 600 nm
C610TME-B	$ 87.00	£ 62.64	€ 75,69	¥ 693.39	Mounted Lens, AR-Coated: 600 – 1050 nm

Geltech™ Molded Glass Aspheric Focusing Lens

Optical Design Specifications

- **Design Wavelength:** 410 nm
- **Numerical Aperture:** 0.60
- **Clear Aperture:** Ø4.80 mm
- **Effective Focal Length:** 4.00 mm
- **Unmounted Working Distance:** 2.73 mm
- **Mounted Working Distance:** 2.44 mm
- **Magnification:** Infinite
- **Storage Media Thickness:** 1.20 mm
- **Storage Media Material/Index:** K3/1.532 @ 410 nm
- **Diffraction-Limited Range:** 395 – 435 nm
- **Surface Quality:** 40-20 Scratch-Dig
- **Glass:** ECO-550

Geltech™ lenses are manufactured by LightPath® Technologies

AR Coating Plots Page 717

OEM's
Thorlabs stocks a large number of uncoated lenses. If your application requires a custom coating, please contact us directly for price and availability. Custom housings are also available.