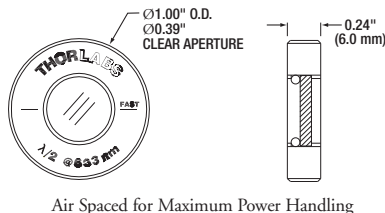


Multi-Order Wave Plates: Ø10 mm Clear Aperture

Thorlabs' Multi-Order Wave Plates are made from high-quality crystal quartz and are available for specific retardances at a variety of popular wavelengths. The housing is engraved with its type ($\lambda/4$ or $\lambda/2$), the wavelength for which it was designed, and a line indicating the orientation of the fast axis.

The term multi-order refers to the fact that the retardance of a light path will undergo an integer number of full wavelength shifts in addition to the fractional design retardance. Compared to their zero-order counterparts, the retardance of multi-order wave plates is more sensitive to wavelength and temperature changes; however, they are less expensive and find use in many applications where the increased sensitivities are not an issue.

Thorlabs offers a multi-order, dual wave plate for the wavelength combination of 1064 and 532 nm.



Air Spaced for Maximum Power Handling



WPMQ05M-780

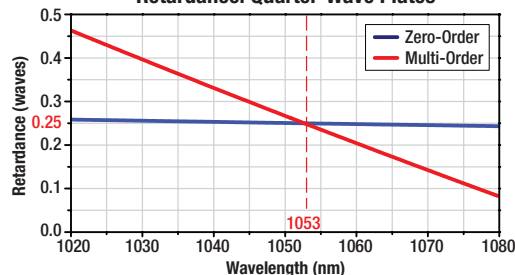
WPMQ05M-633

Specifications

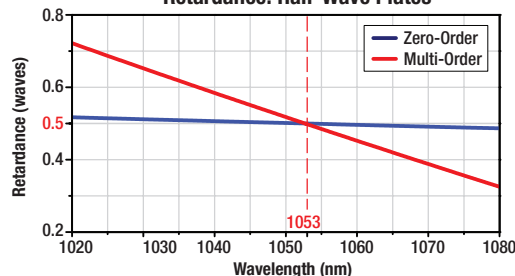
- **Material:** Crystal Quartz
- **Diameter**
 - 12.7 mm ± 0.1 mm (Unmounted)
 - 25.4 mm (Mounted)
- **Retardance Accuracy:** $\lambda/200$
- **Beam Deviation (Max):** <10 arcsec
- **Clear Aperture:** Ø0.39" (Ø10.0 mm)
- **Transmitted Wavefront Error:** $\lambda/10$ @ 633 nm
- **Surface Quality:** 20-10 Scratch-Dig
- **Damage Threshold, WPMQ05M-1064:** 10 J/cm² @ 1064 nm, 10 ns, Ø0.433 mm*
- **AR Coated:** <0.25% Per Surface

* Additional Damage Threshold specifications are available on our website.

Retardance: Quarter-Wave Plates



Retardance: Half-Wave Plates



Please refer to our website for complete models and drawings.

Mounted Multi-Order Wave Plates*

QUARTER-WAVE PLATE ITEM #	HALF-WAVE PLATE ITEM #	\$	£	€	RMB	AR COATING
WPMQ05M-266	WPMH05M-266	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	266 nm
WPMQ05M-355	WPMH05M-355	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	355 nm

QUARTER-WAVE PLATE ITEM #	HALF-WAVE PLATE ITEM #	\$	£	€	RMB	AR COATING
WPMQ05M-405	WPMH05M-405	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	405 nm
WPMQ05M-488	WPMH05M-488	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	488 nm
WPMQ05M-514	WPMH05M-514	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	514 nm
WPMQ05M-532	WPMH05M-532	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	532 nm
WPMQ05M-633	WPMH05M-633	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	633 nm
WPMQ05M-670	WPMH05M-670	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	670 nm

QUARTER-WAVE PLATE ITEM #	HALF-WAVE PLATE ITEM #	\$	£	€	RMB	AR COATING
WPMQ05M-780	WPMH05M-780	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	780 nm
WPMQ05M-808	WPMH05M-808	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	808 nm
WPMQ05M-830	WPMH05M-830	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	830 nm
WPMQ05M-980	WPMH05M-980	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	980 nm
WPMQ05M-1053	WPMH05M-1053	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	1053 nm
WPMQ05M-1064	WPMH05M-1064	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	1064 nm
WPMQ05M-1310	WPMH05M-1310	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	1310 nm
WPMQ05M-1550	WPMH05M-1550	\$ 230.00	£ 165.60	€ 200,10	¥ 1,833.10	1550 nm

QUARTER-WAVE PLATE ITEM #	HALF-WAVE PLATE ITEM #	\$	£	€	RMB	COATING
WPD05M-532H-1064Q		\$ 322.00	£ 231.84	€ 280,14	¥ 2,566.34	Multi-Order Dual Wave Plate $\lambda/2@532$ nm, $\lambda/4@1064$ nm
WPD05M-1064H-532Q		\$ 322.00	£ 231.84	€ 280,14	¥ 2,566.34	Multi-Order Dual Wave Plate $\lambda/4@532$ nm, $\lambda/2@1064$ nm

*The wave plate can be removed from the Ø1" housing. The outer diameter of the unmounted wave plate is 12.7 mm.

DUAL
WAVE
PLATES