



Waveplates

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Selection Guide

Type/Product Code	Material	Operating Conditions	Retardation Tolerance	Typical Bandwidth	Page
Multiple Order QWPM	Crystal Quartz	10 J/cm ² , 20 nsec, 20 Hz; 1 MW/cm ² , cw at 1064 nm	$\lambda/200$ – $\lambda/500$ at 23°C	<2 nm at 532 nm	9.2
Zero Order QWPO	Crystal Quartz	10 J/cm ² , 20 nsec, 20 Hz; 1 MW/cm ² , cw at 1064 nm	$\lambda/200$ – $\lambda/500$ at 23°C	80 nm at 800 nm	9.4
MWPS	Mica and BK7 Glass	Not Rated	$\lambda/20$ typical	10 nm at 633 nm	9.6
PWPS	Birefringent Polymer	500 W/cm ² cw 600 mJ/cm ² , 20 nsec, visible 4 J/cm ² , 20 nsec, 1064 nm	$\lambda/350$	80 nm at 800 nm	9.7
Dual-Wavelength QWPD	Crystal Quartz	10 J/cm ² , 20 nsec, 20 Hz; 1 MW/cm ² , cw at 1064 nm	$\lambda/100$ at 23°C typical	Call CVI Melles Griot with wavelength pair desired	9.8
Achromatic PAWP	Birefringent Polymer Stack	500 W/cm ² cw 300 mJ/cm ² 10 nsec, visible 500 mJ/cm ² 10 nsec, 1064 nm	$\lambda/100$	200 nm at 720 nm	9.9
ACWP	Air Spaced Crystal Quartz and MgF ₂	2 J/cm ² , 20 nsec, 20 Hz; 500 kW/cm ² , cw at 1064 nm	$\lambda/100$ at 500 nm typical	300 nm at 850 nm	9.10
Polarization Rotators RT	Crystal Quartz	10 J/cm ² , 20 nsec, 20 Hz; 1 MW/cm ² , cw at 1064 nm	$\pm 0.50^\circ$ rotation	Generally for single line application. Rotation varies smoothly with wavelength. Call CVI Melles Griot for rotation at adjoining wavelengths.	9.12

Windows and
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LensesMultielement
Lenses

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Beamsplitters

Waveplates

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ComponentsFilters
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