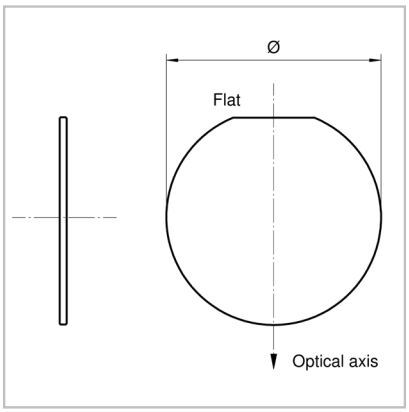
LASER COMPONENTS®

Low Order Waveplates

Low order waveplates are similar to multiple order waveplates. However, they are thinner and, therefore, have the advantage of a larger spectral bandwidth and a greater temperature stability.

Because of their typical range of thickness, the plates are fragile. It is extremely important to handle them with care.



Nomenclature

QWPL	-1064	-05	-2	AR/AR
Product Code (Low Order)	Wavelength in nm	Diameter in inches x 10	Retardation 2: λ/2 4: λ/4	Coating Specification

Specifications

Spectral bandwidth	Typ. λ ± 1.5 %
Typical range of thickness	0.10 mm to 0.25 mm
Wavefront error	λ/10 at 632.8 nm (transmission)
Retardation tolerance	λ/100 to l/600
Surface quality	5/4 x 0.025 for 1.0" substrates according to ISO 10110 10-5 according to MIL-O-1380A
Parallelism	Wedge < 0.5 arcsec
Damage threshold	LDT > 10 J/cm² (10 ns;1064 nm)
Clear aperture	85 % of diameter
Wavelength	For single wavelength in the range of 248 nm – 2200 nm
Dimensions [mm]:	12.7; 15.0; 20.0; 25.4; 30.0; 38.1; 50.8

Low order waveplates are also available with reduced specifications.

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