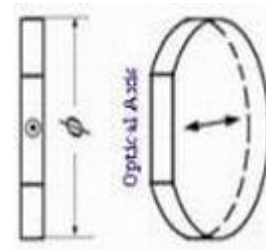


## Low-order Waveplates

The low(multiple) order waveplate is designed to give a retardance of several full waves, plus the desired fraction. This result in a single, physically robust component with desired performance. However, even small changes in wavelength or temperature will result in significant changes in the desired fractional retardance. They are less expensive and find use in many applications where the increased sensitivities are not an important.

### Specifications:

- Materials: **Crystal Quartz**
- Retardation Tolerance :  $< \lambda/500$
- Wavelength Range: 240 ~ 2100nm
- Diameter Tolerance:  $+0/-0.20$  mm
- Thickness:  $\approx 0.2-0.5$ mm
- Wavefront distortion:  $\lambda/8$  over central 85% of aperture at 632.8 nm
- Parallelism: 1 arc second
- Surface Quality: 20/10 scratch and dig
- AR/AR Coating:  $R < 0.25\%$  per surface



$\Phi$ (mm)	Uncoated	AR/AR Coated
	Part No.	Part No.
10.0	WPL1110	WPL1210
12.7	WPL1112	WPL1212
15.0	WPL1115	WPL1215
20.0	WPL1120	WPL1220
25.4	WPL1125	WPL1225