



Zero Order Waveplate



zero order waveplate is designed to give a retardance of zero full waves, plus the desired fraction. Zero order waveplate shows better performances than multiple order waveplates, it has broad bandwidth and a lower sensitivity to temperature and wavelength changes. It should be considered for more critical online_orderings.

Zero Order Waveplate

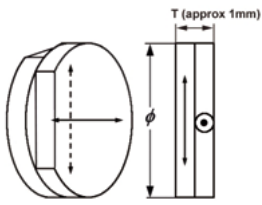
We offer a wide choice of zero-order waveplate, low order Waveplate and multiple-order waveplates made from crystalline quartz. These zero order waveplates are made from two pieces of quartz, either cemented or optically contacted, with their optic axes perpendicular to each other.

The zero order waveplate is designed to give a retardance of zero full waves, plus the desired fraction. Zero order waveplate shows better performances than multiple order waveplates, it has broad bandwidth and a lower sensitivity to temperature and wavelength changes. It should be considered for more critical online orderings.

Zero Order Waveplate Specifications:

Attribute	Specification
Material:	Quartz
Dimension Tolerance:	+0.0/-0.1mm
Surface Quality:	20/10 Scratch/Dig
Flatness:	$\lambda/8@633\text{nm}$
Parallelism:	<1 arc Second
Retardation Tolerance:	$\lambda/500$
Clear Aperture	> 90%
AR Coated	$R < 0.2\% @ \text{Wavelength}$
Standard Wavelength	266nm,355nm,532nm,63.28nm,780nm,808nm, 850nm,980nm,1064nm,1310nm,1480nm,1550nm

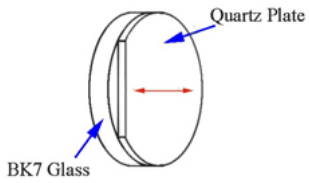
Zero Order Waveplate – Optical Cemented



Optical Cemented
 High Damage Threshold
 AR Coated, R<0.2%
 Better Temperature Bandwidth
 Wide Wavelength Bandwidth

Half Waveplates Part No.	Quarter Waveplates Part No.	Diameter (mm)
WPO910H	WPO910Q	10.0
WPO912H	WPO912Q	12.7
WPO915H	WPO915Q	15.0
WPO920H	WPO920Q	20.0
WPO925H	WPO925Q	25.4
WPO930H	WPO930Q	30.0

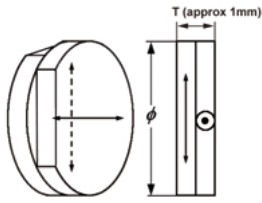
True Zero Order Waveplate – Cemented



Cemented by Epoxy
 Wide Angle Acceptance
 AR Coated, R<0.2%
 Better Temperature Bandwidth
 Wide Wavelength Bandwidth

Half Waveplates Part No.	Quarter Waveplates Part No.	Diameter (mm)
WPF910H	WPF910Q	10.0
WPF912H	WPF912Q	12.7
WPF915H	WPF915Q	15.0
WPF920H	WPF920Q	20.0
WPF925H	WPF925Q	25.4
WPF930H	WPF930Q	30.0

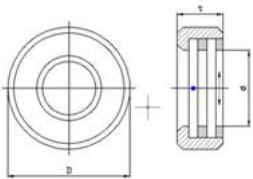
Zero Order Waveplate – Cemented



Cemented by Epoxy
 AR Coated, $R < 0.2\%$
 Better Temperature Bandwidth
 Wide Wavelength Bandwidth

Half Waveplates Part No.	Quarter Waveplates Part No.	Diameter (mm)
WPC910H	WPC910Q	10.0
WPC912H	WPC912Q	12.7
WPC915H	WPC915Q	15.0
WPC920H	WPC920Q	20.0
WPC925H	WPC925Q	25.4
WPC930H	WPC930Q	30.0

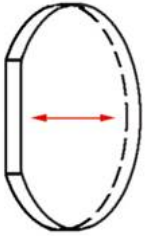
Zero Order Waveplate – Air-spaced



Double Plates
 AR Coated, $R < 0.2\%$ and Mounted
 High Damage Threshold
 Broad Temperature Bandwidth
 Wide Wavelength Bandwidth

Half Waveplates Part No.	Quarter Waveplates Part No.	Diameter (mm)
WPA910H	WPA910Q	10.0
WPA912H	WPA912Q	12.7
WPA915H	WPA915Q	15.0
WPA920H	WPA920Q	20.0
WPA925H	WPA925Q	25.4
WPA930H	WPA930Q	30.0

Single Plate Zero Order Waveplate



Single Plate
Wide Angle Acceptance
AR Coated, $R < 0.2\%$ and Mounted
High Damage Threshold
Better Temperature Bandwidth
Wide Wavelength Bandwidth
Thin Thickness: 0.04~0.09 microns
Standard Wavelength: $\lambda/4$: 1480nm, 1550nm, $\lambda/2$: 980nm, 1064nm, 1310nm, 1480nm, 1550nm

Half Waveplates Part No.	Quarter Waveplates Part No.	Diameter (mm)
WPS910H	WPS910Q	10.0
WPS912H	WPS912Q	12.7
WPS915H	WPS915Q	15.0
WPS920H	WPS920Q	20.0

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