

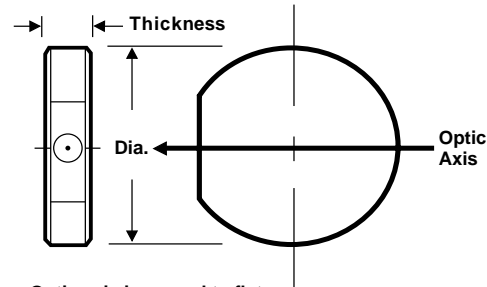
# Multiple Order Waveplates (1/4, 1/2)



## Diameter (mm)

### Specifications:

Material..... Crystal quartz  
 Parallelism..... Less than 0.5 arc seconds  
 Surface Quality..... 10/5  
 Retardation Tolerance..... 1/600  
 Transmitted Wavefront..... 1/10  
 Diameter Tolerance..... +.000", -.005"  
 Clear Aperture..... Central 90% of diameter



Optic axis is normal to flat on plate (plate approximately 1 mm thick)

| Wavelength (nm) | Diameter (mm) |           |           |           |
|-----------------|---------------|-----------|-----------|-----------|
|                 | 10 mm         | 15 mm     | 20 mm     | 30 mm     |
| 248.0 1/4       | WMQ248-39     | WMQ248-59 | WMQ248-78 | WMQ248-11 |
| 248.0 1/2       | WMH248-39     | WMH248-59 | WMH248-78 | WMH248-11 |
| 266.0 1/4       | WMQ266-39     | WMQ266-59 | WMQ266-78 | WMQ266-11 |
| 266.0 1/2       | WMH266-39     | WMH266-59 | WMH266-78 | WMH266-11 |
| 308.0 1/4       | WMQ308-39     | WMQ308-59 | WMQ308-78 | WMQ308-11 |
| 308.0 1/2       | WMH308-39     | WMH308-59 | WMH308-78 | WMH308-11 |
| 354.7 1/4       | WMQ354-39     | WMQ354-59 | WMQ354-78 | WMQ354-11 |
| 354.7 1/2       | WMH354-39     | WMH354-59 | WMH354-78 | WMH354-11 |
| 441.6 1/4       | WMQ441-39     | WMQ441-59 | WMQ441-78 | WMQ441-11 |
| 441.6 1/2       | WMH441-39     | WMH441-59 | WMH441-78 | WMH441-11 |
| 488.0 1/4       | WMQ488-39     | WMQ488-59 | WMQ488-78 | WMQ488-11 |
| 488.0 1/2       | WMH488-39     | WMH488-59 | WMH488-78 | WMH488-11 |
| 514.5 1/4       | WMQ514-39     | WMQ514-59 | WMQ514-78 | WMQ514-11 |
| 514.5 1/2       | WMH514-39     | WMH514-59 | WMH514-78 | WMH514-11 |
| 532.0 1/4       | WMQ532-39     | WMQ532-59 | WMQ532-78 | WMQ532-11 |
| 532.0 1/2       | WMH532-39     | WMH532-59 | WMH532-78 | WMH532-11 |
| 632.8 1/4       | WMQ632-39     | WMQ632-59 | WMQ632-78 | WMQ632-11 |
| 632.8 1/2       | WMH632-39     | WMH632-59 | WMH632-78 | WMH632-11 |
| 694.3 1/4       | WMQ694-39     | WMQ694-59 | WMQ694-78 | WMQ694-11 |
| 694.3 1/2       | WMH694-39     | WMH694-59 | WMH694-78 | WMH694-11 |

\*For anti-reflection coatings, add AR to the end of the part number.

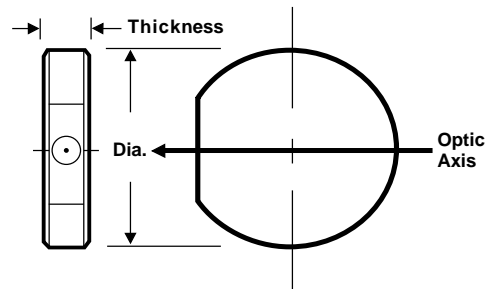
# Multiple Order Waveplates (1/4, 1/2)



## Diameter (Inches)

### Specifications:

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 Surface Quality ..... 10/5  
 Retardation Tolerance ..... 1/600  
 Transmitted Wavefront ..... 1/10  
 Diameter Tolerance ..... +.000", -.005"  
 Clear Aperture ..... Central 90% of diameter



Optic axis is normal to flat  
 on plate (plate approximately 1 mm thick)

| Wavelength (nm) | Diameter (Inches) |           |           |           |
|-----------------|-------------------|-----------|-----------|-----------|
|                 | .500"             | .750"     | 1.00"     | 1.50"     |
| 248.0 1/4       | WMQ248-50         | WMQ248-75 | WMQ248-10 | WMQ248-15 |
| 248.0 1/2       | WMH248-50         | WMH248-75 | WMH248-10 | WMH248-15 |
| 266.0 1/4       | WMQ266-50         | WMQ266-75 | WMQ266-10 | WMQ266-15 |
| 266.0 1/2       | WMH266-50         | WMH266-75 | WMH266-10 | WMH266-15 |
| 308.0 1/4       | WMQ308-50         | WMQ308-75 | WMQ308-10 | WMQ308-15 |
| 308.0 1/2       | WMH308-50         | WMH308-75 | WMH308-10 | WMH308-15 |
| 354.7 1/4       | WMQ354-50         | WMQ354-75 | WMQ354-10 | WMQ354-15 |
| 354.7 1/2       | WMH354-50         | WMH354-75 | WMH354-10 | WMH354-15 |
| 441.6 1/4       | WMQ441-50         | WMQ441-75 | WMQ441-10 | WMQ441-15 |
| 441.6 1/2       | WMH441-50         | WMH441-75 | WMH441-10 | WMH441-15 |
| 488.0 1/4       | WMQ488-50         | WMQ488-75 | WMQ488-10 | WMQ488-15 |
| 488.0 1/2       | WMH488-50         | WMH488-75 | WMH488-10 | WMH488-15 |
| 514.5 1/4       | WMQ514-50         | WMQ514-75 | WMQ514-10 | WMQ514-15 |
| 514.5 1/2       | WMH514-50         | WMH514-75 | WMH514-10 | WMH514-15 |
| 532.0 1/4       | WMQ532-50         | WMQ532-75 | WMQ532-10 | WMQ532-15 |
| 532.0 1/2       | WMH532-50         | WMH532-75 | WMH532-10 | WMH532-15 |
| 632.8 1/4       | WMQ632-50         | WMQ632-75 | WMQ632-10 | WMQ632-15 |
| 632.8 1/2       | WMH632-50         | WMH632-75 | WMH632-10 | WMH632-15 |
| 694.3 1/4       | WMQ694-50         | WMQ694-75 | WMQ694-10 | WMQ694-15 |
| 694.3 1/2       | WMH694-50         | WMH694-75 | WMH694-10 | WMH694-15 |

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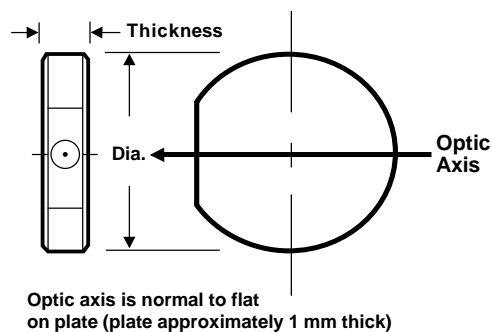
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 Transmitted Wavefront..... 1/10  
 Diameter Tolerance..... +.000", -.005"  
 Clear Aperture..... Central 90% of diameter



| Diameter (mm)   |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|
| Wavelength (nm) | 10mm      | 15mm      | 20mm      | 30mm      |
| 790.0 1/4       | WMQ790-39 | WMQ790-59 | WMQ790-78 | WMQ790-11 |
| 790.0 1/2       | WMH790-39 | WMH790-59 | WMH790-78 | WMH790-11 |
| 800.0 1/4       | WMQ800-39 | WMQ800-59 | WMQ800-78 | WMQ800-11 |
| 800.0 1/2       | WMH800-39 | WMH800-59 | WMH800-78 | WMH800-11 |
| 810.0 1/4       | WMQ810-39 | WMQ810-59 | WMQ810-78 | WMQ810-11 |
| 810.0 1/2       | WMH810-39 | WMH810-59 | WMH810-78 | WMH810-11 |
| 830.0 1/4       | WMQ830-39 | WMQ830-59 | WMQ830-78 | WMQ830-11 |
| 830.0 1/2       | WMH830-39 | WMH830-59 | WMH830-78 | WMH830-11 |
| 1053.0 1/4      | WMQ104-39 | WMQ104-59 | WMQ104-78 | WMQ104-11 |
| 1053.0 1/2      | WMH104-39 | WMH104-59 | WMH104-78 | WMH104-11 |
| 1054.0 1/4      | WMQ105-39 | WMQ105-59 | WMQ105-78 | WMQ105-11 |
| 1054.0 1/2      | WMH105-39 | WMH105-59 | WMH105-78 | WMH105-11 |
| 1064.1 1/4      | WMQ106-39 | WMQ106-59 | WMQ106-78 | WMQ106-11 |
| 1064.1 1/2      | WMH106-39 | WMH106-59 | WMH106-78 | WMH106-11 |
| 1319.0 1/4      | WMQ132-39 | WMQ132-59 | WMQ132-78 | WMQ132-11 |
| 1319.0 1/2      | WMH132-39 | WMH132-59 | WMH132-78 | WMH132-11 |
| 1550.0 1/4      | WMQ155-39 | WMQ155-59 | WMQ155-78 | WMQ155-11 |
| 1550.0 1/2      | WMH155-39 | WMH155-59 | WMH155-78 | WMH155-11 |
| 2100.0 1/4      | WMQ210-39 | WMQ210-59 | WMQ210-78 | WMQ210-11 |
| 2100.0 1/2      | WMH210-39 | WMH210-59 | WMH210-78 | WMH210-11 |

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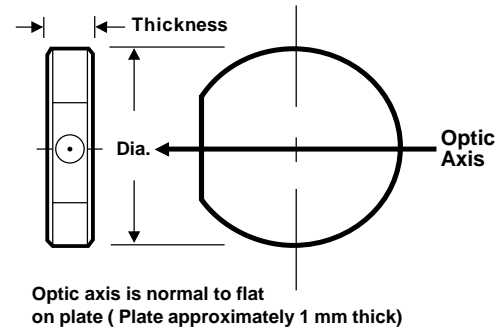
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 Surface Quality ..... 10/5  
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 Transmitted Wavefront ..... 1/10  
 Diameter Tolerance ..... +.000", -.005"  
 Clear Aperture ..... Central 90% of diameter



| Diameter (Inches) |           |           |           |           |
|-------------------|-----------|-----------|-----------|-----------|
| Wavelength (nm)   | .500"     | .750"     | 1.00"     | 1.50"     |
| 790.0 1/4         | WMQ790-50 | WMQ790-75 | WMQ790-10 | WMQ790-15 |
| 790.0 1/2         | WMH790-50 | WMH790-75 | WMH790-10 | WMH790-15 |
| 800.0 1/4         | WMQ800-50 | WMQ800-75 | WMQ800-10 | WMQ800-15 |
| 800.0 1/2         | WMH800-50 | WMH800-75 | WMH800-10 | WMH800-15 |
| 810.0 1/4         | WMQ810-50 | WMQ810-75 | WMQ810-10 | WMQ810-15 |
| 810.0 1/2         | WMH810-50 | WMH810-75 | WMH810-10 | WMH810-15 |
| 830.0 1/4         | WMQ830-50 | WMQ830-75 | WMQ830-10 | WMQ830-15 |
| 830.0 1/2         | WMH830-50 | WMH830-75 | WMH830-10 | WMH830-15 |
| 1053.0 1/4        | WMQ104-50 | WMQ104-75 | WMQ104-10 | WMQ104-15 |
| 1053.0 1/2        | WMH104-50 | WMH104-75 | WMH104-10 | WMH104-15 |
| 1054.0 1/4        | WMQ105-50 | WMQ105-75 | WMQ105-10 | WMQ105-15 |
| 1054.0 1/2        | WMH105-50 | WMH105-75 | WMH105-10 | WMH105-15 |
| 1064.1 1/4        | WMQ106-50 | WMQ106-75 | WMQ106-10 | WMQ106-15 |
| 1064.1 1/2        | WMH106-50 | WMH106-75 | WMH106-10 | WMH106-15 |
| 1319.0 1/4        | WMQ132-50 | WMQ132-75 | WMQ132-10 | WMQ132-15 |
| 1319.0 1/2        | WMH132-50 | WMH132-75 | WMH132-10 | WMH132-15 |
| 1550.0 1/4        | WMQ155-50 | WMQ155-75 | WMQ155-10 | WMQ155-15 |
| 1550.0 1/2        | WMH155-50 | WMH155-75 | WMH155-10 | WMH155-15 |
| 2100.0 1/4        | WMQ210-50 | WMQ210-75 | WMQ210-10 | WMQ210-15 |
| 2100.0 1/2        | WMH210-50 | WMH210-75 | WMH210-10 | WMH210-15 |

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