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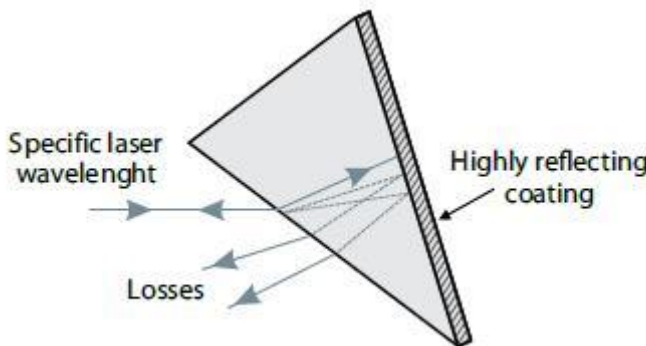
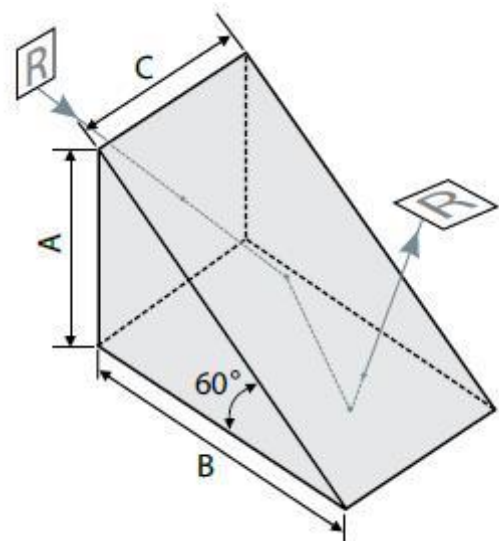
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- Uncoated prisms can be used to disperse the light into spectrum
- Aluminium coated (B face) prisms diverts the beam at a 60 deg angle without inverting or reverting the image

Standard Specifications

| | |
|----------------------|---------------------|
| Material | BK7 |
| Dimension Tolerances | +0.0, -0.2 mm |
| Surface Flatness | <λ/4 @ 632.8 nm |
| Angle Tolerance | +/- 10 arcmin |
| Bevel | 0.4 mm x 45 deg |
| Surface Quality | 40-20 scratch & dig |

Littrow prisms usually are 30 - 60 - 90 deg prisms. The uncoated Littrow prism can disperse white light into its spectrum; the coated Littrow prism diverts the beam at a 60 deg angle without inverting or reversing the image. Littrow prisms can also be used as retro-reflecting Brewster prisms, as shown in the picture. They are positioned so that beam which enters front side of prism suffers Brewster angle and falls normal to the flat surface and is reflected back along the same path. They are useful in laser cavities where the wavelength of the return beam can be selected by tilting the prism slightly. In this way the gain of the cavity can be tuned to a specific laser line.

BK7 Littrow Prisms

| Dimensions A x B x C, mm | Coating | Ordering Code |
|--------------------------|----------------------------|---------------|
| 12.70 x 21.90 x 12.70 | Uncoated | 14LP-1-0 |
| | Al+SiO ₂ coated | 14LP-1-1 |
| 22.00 x 37.90 x 22.00 | Uncoated | 14LP-2-0 |
| | Al+SiO ₂ coated | 14LP-2-1 |

Related Products and Accessories



5PM131
Prism/Optics Mount



5PMF57
Universal Prism/Optics Mount



6PT169
Three Angle Prism/Beamsplitter
Table



6PT110
Tilt/Rotation Stage



5OM37-50
Two Angular Fine Adjustment Mounts



7FA3
Roll & Pitch Tilt Platform

Ordering

BK7 Littrow Prisms



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