

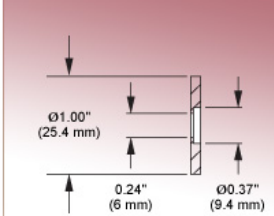
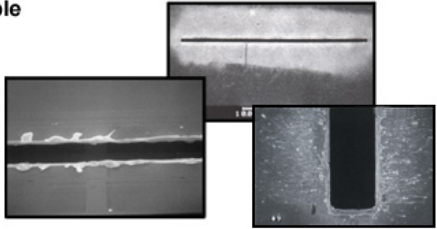


435 Route 206 • P.O.Box 366
Newton NJ 07860-0366

SALES: (973) 579-7227
FAX: (973) 300-3600
www.thorlabs.com

Fixed Vertical Slits

- ▶ 12 Slit Widths Available Ranging from 5-200 μm
- ▶ Ø1" Housing is SM1 Compatible
- ▶ High Damage Threshold



Overview

- **Slit Dimensions & Material**
Slit Widths Available: 5 - 200 μm (See Table to Right for Details)
Slit Height: 3 mm
Slit Thickness: 12.8 μm
Housing: Ø1" Outer Diameter x 0.10" Thick
Slit Material: 302 Stainless Steel w/ Black Oxide Finish
Unmounted Slit: Ø3/8" (9.5 mm) x 0.0005" (12.8 μm) Thick
Position Tolerance of Slit: Ø0.006" (Ø0.15 mm) within the Foil Disk
- **Damage Threshold**
 $5 \times 10^4 \text{ W/mm}^2$, 75 ns Pulse @ 700 nm
 $1 \times 10^5 \text{ W/mm}^2$, 10 ns Pulse @ 700 nm
 $1 \times 10^3 \text{ W/mm}^2$, CW @ 10.6 μm

| Slit Width | Tolerance |
|-------------------|---------------------|
| 5 μm | $\pm 1 \mu\text{m}$ |
| 10 μm | $\pm 1 \mu\text{m}$ |
| 15 μm | $\pm 1 \mu\text{m}$ |
| 20 μm | $\pm 2 \mu\text{m}$ |
| 30 μm | $\pm 2 \mu\text{m}$ |
| 40 μm | $\pm 2 \mu\text{m}$ |
| 50 μm | $\pm 3 \mu\text{m}$ |
| 100 μm | $\pm 4 \mu\text{m}$ |
| 150 μm | $\pm 4 \mu\text{m}$ |
| 200 μm | $\pm 4 \mu\text{m}$ |

These slits are mounted in a Ø1" plate, perfect for mounting in our SM1-series lens tubes ([SM1L03](#)).

Order

| PartNumber | Description | Price | Availability |
|------------|---|---------|--------------|
| S5R | Ø1" Mounted Slit, $5 \pm 1 \mu\text{m}$ Wide, 3 mm Tall | \$93.60 | Today |
| S10R | Ø1" Mounted Slit, $10 \pm 1 \mu\text{m}$ Wide, 3 mm Tall | \$93.60 | Today |
| S15R | Ø1" Mounted Slit, $15 \pm 1 \mu\text{m}$ Wide, 3 mm Tall | \$93.60 | Today |
| S20R | Ø1" Mounted Slit, $20 \pm 2 \mu\text{m}$ Wide, 3 mm Tall | \$93.60 | Today |
| S30R | Ø1" Mounted Slit, $30 \pm 2 \mu\text{m}$ Wide, 3 mm Tall | \$93.60 | Today |
| S40R | Ø1" Mounted Slit, $40 \pm 2 \mu\text{m}$ Wide, 3 mm Tall | \$83.20 | Today |
| S50R | Ø1" Mounted Slit, $50 \pm 3 \mu\text{m}$ Wide, 3 mm Tall | \$83.20 | Today |
| S100R | Ø1" Mounted Slit, $100 \pm 4 \mu\text{m}$ Wide, 3 mm Tall | \$83.20 | Today |
| S150R | Ø1" Mounted Slit, $150 \pm 4 \mu\text{m}$ Wide, 3 mm Tall | \$83.20 | Today |
| S200R | Ø1" Mounted Slit, $200 \pm 4 \mu\text{m}$ Wide, 3 mm Tall | \$83.20 | Today |