

INFRARED GLASS POLARIZER

This glass polarizer leverages the dichroic properties of silver nanoparticles embedded in the glass to achieve superior contrast and durability. Designed for use in high-performance optical communication systems, it offers the following features:

- Ultra-thin glass design compared to traditional film polarizers
- Easy to handle, similar to standard glass or silicon wafers
- Highly resistant to UV radiation and most chemicals
- Wide acceptance angle for versatile optical applications
- High thermal stability, with an operating temperature up to +400°C

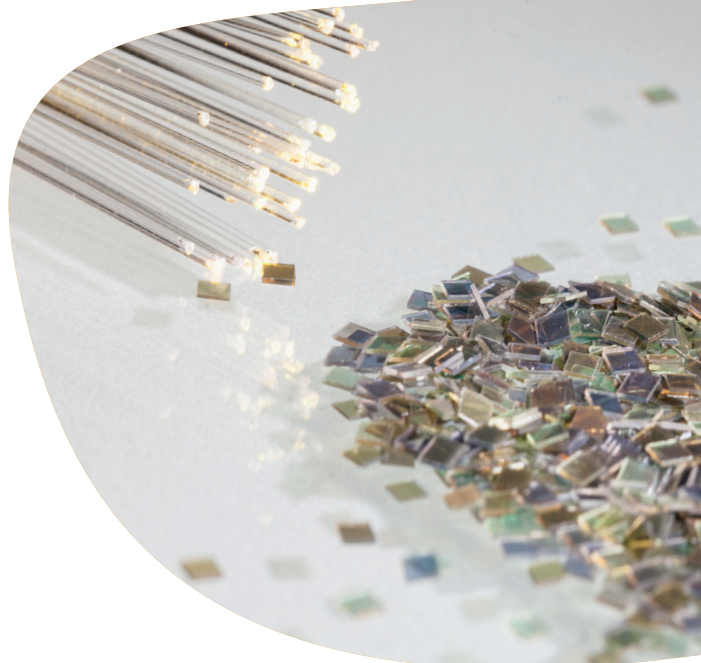
This glass polarizer is ideal for applications that demand both high durability and optical performance.

General Properties of Glass Polarizer

- Transmitted Wavefront Distortion (TWD) at 633 nm: $< 3 \lambda$ over $\varnothing 10$ mm inspection area
- Accuracy of Polarization Axis to Edge: $< 0.5^\circ$
- Refractive Index (RI) at 633 nm: 1.525 ± 0.005
- Surface Quality (MIL-O-13830A): S/D 40/20

Mechanical Specifications

- Size Tolerances: ± 0.1 mm
- Thickness Tolerances: ± 50 μm
- Substrate Material: Soda lime glass



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Available options

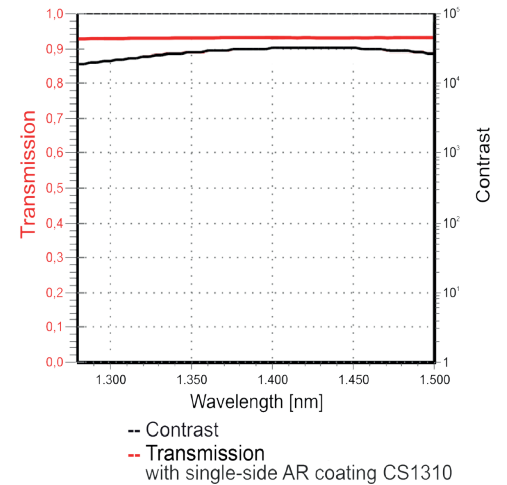
AZ1310

Spectral range: 1280 – 1500 nm

Transmission: >92%

Extinction ratio: 10.000:1

SUPPLIER CODE	PRODUCT NAME	DIMENSIONS [mm x mm]	POLARIZATION AXIS	THICKNESS [μm]
24005160	AZ1310	11x11	0°	270
24005701	AZ1310	11x11	0°	200
24005011	AZ1310	11.4x11.4	0°	270
24005702	AZ1310	11x11	45°	200
24005038	AZ1350	11.4x11.4	0°	270



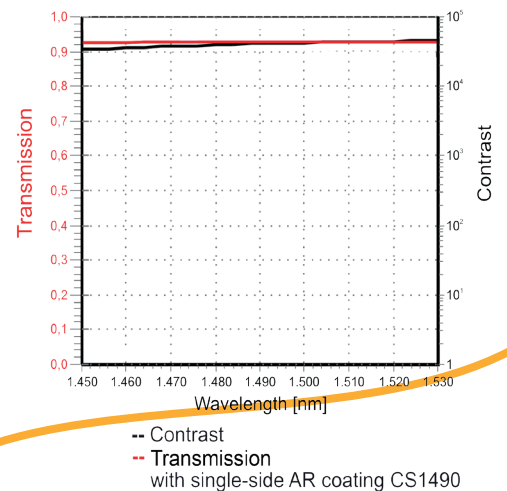
AZ1490

Spectral range: 1450 - 1530 nm

Transmission: >92%

Extinction ratio: 10.000:1

SUPPLIER CODE	PRODUCT NAME	DIMENSIONS [mm x mm]	POLARIZATION AXIS	THICKNESS [μm]
24005703	AZ1490	11x11	0°	200
24005704	AZ1490	11x11	45°	200
24008004	AZ1490	11x11	0°	270



AZ1550

Spectral range: 1480 - 1650 nm

Transmission: >92%

Extinction ratio: 10.000:1

SUPPLIER CODE	PRODUCT NAME	DIMENSIONS [mm x mm]	POLARIZATION AXIS	THICKNESS [μm]
24007398	AZ1550	11.4x11.4	0°	270
24005706	AZ1550	11x11	45°	200
24005705	AZ1550	11x11	0°	200
24005159	AZ1550	11x11	45°	270

