

Glan-Thompson Polarizers

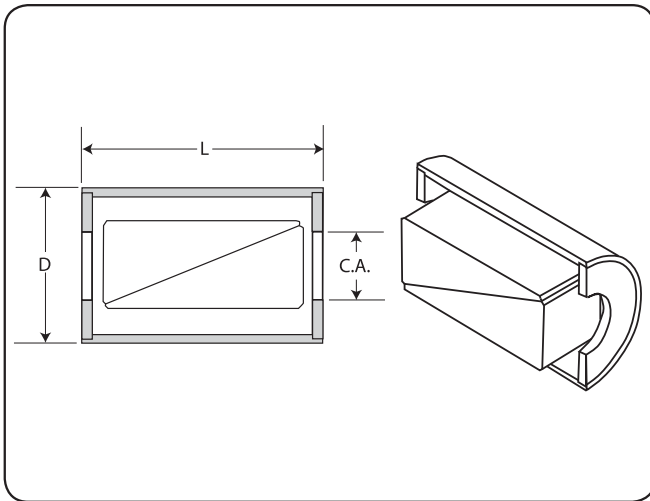
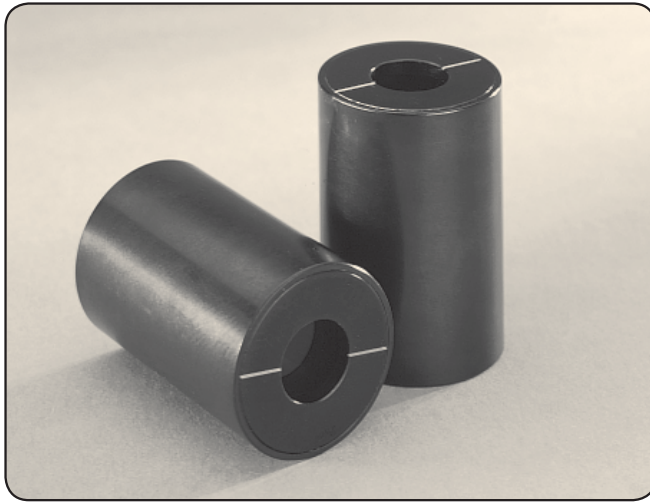


Fig. 1-24 Glan-Thompson Polarizer construction

ORDERING INFORMATION			
Clear Aperture (mm)	Wavelength Range (nm)	AR Coating	Part Number
5	320 – 2300	None	GTP – M05
5	400 – 700	MgF ₂	GTP – M05 – 0550
5	650 – 1000	MgF ₂	GTP – M05 – 0825
5	1000 – 1500	MgF ₂	GTP – M05 – 1250
8	320 – 2300	None	GTP – M08
8	400 – 700	MgF ₂	GTP – M08 – 0550
8	650 – 1000	MgF ₂	GTP – M08 – 0825
8	1000 – 1500	MgF ₂	GTP – M08 – 1250
10	320 – 2300	None	GTP – M10
10	400 – 700	MgF ₂	GTP – M10 – 0550
10	650 – 1000	MgF ₂	GTP – M10 – 0825
10	1000 – 1500	MgF ₂	GTP – M10 – 1250

Key Benefits

- Broad spectral range
- Excellent extinction ratio

Calcite is a naturally occurring birefringent crystal. By precisely controlling internal prism angles in our calcite polarizers, a very efficient linear polarizer is produced.

Meadowlark Optics offers Glan-Thompson Polarizers, intended for precision optical instrumentation and low power laser applications. Key advantages of Glan-Thompson Polarizers include excellent extinction ratio performance and a broad spectral range.

Our Glan-Thompson Polarizers are supplied in a black anodized cylindrical housing for easy mounting. Although raw calcite material transmits down to 215 nm, the cement interface limits ultraviolet transmission. For this reason, we recommend Glan-Thompson Polarizers for use over 320-2300 nm.

Three antireflection coating options cover the visible to near infrared range. Uncoated Glan-Thompson Polarizers are also available.

SPECIFICATIONS	
Material	Grade A Optical Calcite
Extinction Ratio	10,000:1 over central 2/3 of clear aperture
Reflectance (per surface, at normal incidence)	
Uncoated	~ 4.5%
Single layer MgF ₂	~ 1.5%
Beam Deviation	± 3 arc min
Acceptance Angle	± 5°
Wavelength Range	320-2300 nm
Recommended Safe Operating Limit	25-30 W/cm ² CW

