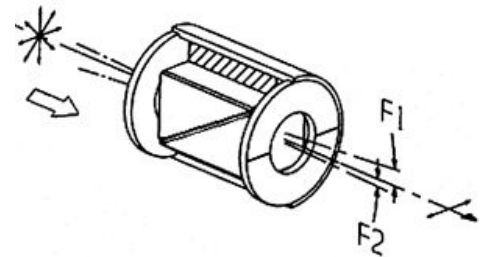
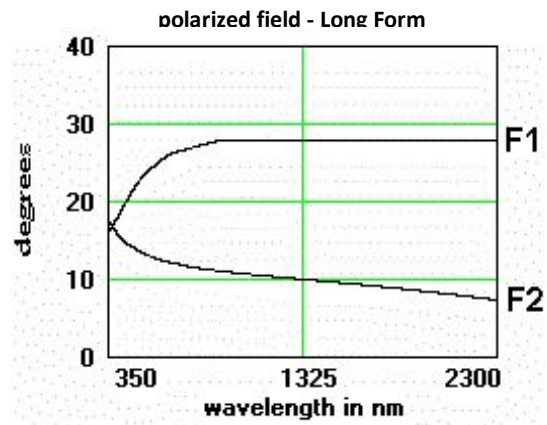
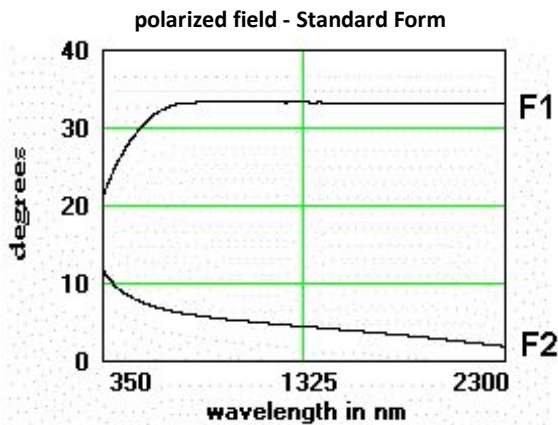


The Glan Thompson polarizer is made of two calcite prisms cemented together. Two types of Glan Thompsons are available. One is the standard form and the other is the long form. Their length to aperture ratios are 2.5:1 and 3.0:1 respectively. Glan Thompsons tend to have higher extinction ratio than air spaced polarizers. In the ultra violet spectrum, their transmission is limited by absorption in calcite as well as the cement layer. These polarizers can be used from about 350 to 2300nm.



Specifications

- A grade calcite : quarter to one wave wavefront deformation @ 633nm due to striae only
- S grade calcite : quarter wave wavefront deformation @ 633nm due to striae only
- E type : made of S grade calcite but polarizer has beam deviation of one arc minute
- Surface flatness : at least quarter wave @ 633nm over the clear aperture
- Transmission (uncoated) : 30-40% at 350nm, 65-70% at 400nm, 80-88% at 500nm and longer wavelengths.



Glan Thompson-Standard Form

Glan Thompson-Long Form

Catalog Number	Clear Aperture diameter (mm)	Mount Dimensions (Inches)		Remarks
		Outside Diameter +/- .0015	Length +/- .007	
MGT25A5	5	0.623	0.875	Grade A Extinction 1×10^{-5} Beam Deviation 3 Arc Minutes
MGT25A8	8	0.748	1.125	
MGT25A10	10	0.873	1.375	
MGT25A12	12	0.998	1.500	
MGT25A14	14	1.123	1.875	
MGT25A16	16	1.373	2.215	
MGT25A20	20	1.623	2.375	Grade S Extinction 5×10^{-6} Beam Deviation 3 Arc Minutes
MGT25S5	5	0.623	0.875	
MGT25S8	8	0.748	1.125	
MGT25S10	10	0.873	1.375	
MGT25S12	12	0.998	1.500	
MGT25S14	14	1.123	1.875	
MGT25S16	16	1.373	2.215	Grade S Extinction 1×10^{-6} Beam Deviation 1 Arc Minutes
MGT25S20	20	1.623	2.375	
MGT25E5	5	0.623	0.875	
MGT25E8	8	0.748	1.125	
MGT25E10	10	0.873	1.375	
MGT25E12	12	0.998	1.500	
MGT25E14	14	1.123	1.875	
MGT25E16	16	1.373	2.215	
MGT25E20	20	1.623	2.375	

Catalog Number	Clear Aperture diameter (mm)	Mount Dimensions (Inches)		Remarks
		Outside Diameter +/- .0015	Length +/- .007	
MGT3A5	5	0.623	0.875	Grade A Extinction 1×10^{-5} Beam Deviation 3 Arc Minutes
MGT3A8	8	0.748	1.125	
MGT3A10	10	0.873	1.375	
MGT3A12	12	0.998	1.500	
MGT3A14	14	1.123	1.875	
MGT3A16	16	1.373	2.215	
MGT3A20	20	1.623	2.375	Grade S Extinction 5×10^{-6} Beam Deviation 3 Arc Minutes
MGT3A5	5	0.623	0.875	
MGT3A8	8	0.748	1.125	
MGT3A10	10	0.873	1.375	
MGT3A12	12	0.998	1.500	
MGT3A14	14	1.123	1.875	
MGT3A16	16	1.373	2.215	Grade S Extinction 1×10^{-6} Beam Deviation 1 Arc Minutes
MGT3A20	20	1.623	2.375	
MGT3A5	5	0.623	0.875	
MGT3A8	8	0.748	1.125	
MGT3A10	10	0.873	1.375	
MGT3A12	12	0.998	1.500	
MGT3A14	14	1.123	1.875	
MGT3A16	16	1.373	2.215	
MGT3A20	20	1.623	2.375	