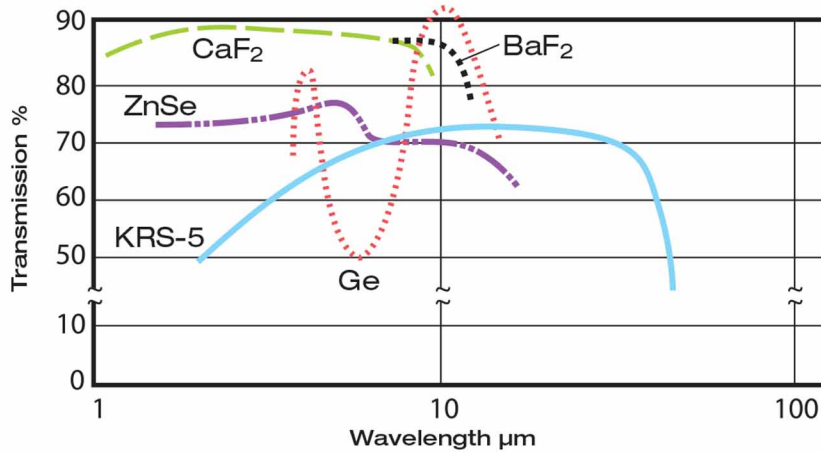


Polarizers

High Extinction Ratio Polarizers



	Substrate	KRS-5	CaF2	BaF2	Ge	ZnSe
Spectral Range (μm)		2 - 35	1 - 10	1 - 12.5	8 - 12	1 - 15
Grid Period (μm)		0.25	0.25	0.25	0.4	0.25
Transmission	2.5μm	70	84	84		74
Efficiency % (K1)	5.0μm	80	86	86		81
	8.0μm				85	
	10.0μm	72	48	80	88	72
Transmission of Unwanted Radiation % (K2)	2.5μm	0.35	0.25	0.28		0.52
	5.0μm	0.15	0.13	0.15		0.20
	8.0μm				0.14	
	10.0μm	0.12	0.05	0.07	0.14	0.12
Degree of Polarization % (K1-K2)/(K1+K2)	2.5μm	99.0	99.4	99.3		96.6
	5.0μm	99.6	99.6	99.6		99.5
	8.0μm				99.6	
	10.0μm	99.7	99.8	99.8	99.6	99.6
Extinction Ratio expressed as K1/K2	2.5μm	200:1	336:1	300:1		142:1
	5.0μm	533:1	662:1	573:1		405:1
	8.0μm				607:1	
	10.0μm	600:1	960:1	1143:1	629:1	600:1

These specifications represent typical minimum performance. Actual results may vary. Maximum operating temperature for Ge is 80°C, all others are 110°C. Other materials, including sapphire, CsI and MgF and custom specifications available upon request.

	Substrate	Ring Mount	Part Number
	OD (mm)	CA (mm)	OD (mm) t (mm)
KRS-5	25.0*	unmounted	N/A N/A
	29.0	25.0	41.0 6.7
	42.0	38.0	55.0 8.7
	54.0	50.0	70.0 8.7
Ge	25.0*	unmounted	N/A N/A
	29.0	25.0	41.0 6.7
	42.0	38.0	55.0 8.7
	54.0	50.0	70.0 8.7
	75.0	71.0	90.0 9.7
CaF2	25.0*	unmounted	N/A N/A
	29.0	25.0	41.0 6.7
	42.0	38.0	55.0 8.7
	54.0	50.0	70.0 8.7
	75.0	71.0	90.0 9.7
BaF2	25.0*	unmounted	N/A N/A
	29.0	25.0	41.0 6.7
	42.0	38.0	55.0 8.7
	54.0	50.0	70.0 8.7
	75.0	71.0	90.0 9.7
ZnSe	25.0*	unmounted	N/A N/A
	29.0	25.0	41.0 6.7
	42.0	38.0	55.0 8.7
	54.0	50.0	70.0 8.7
	75.0	71.0	90.0 9.7

* The unmounted 25.0mm polarizers are 2mm thick.