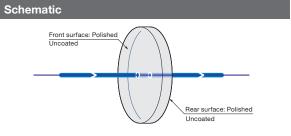
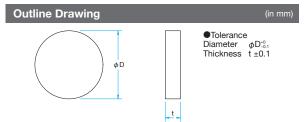


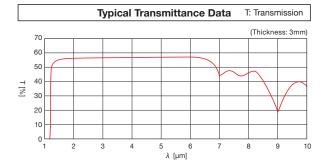
Silicon is a mono crystal primarily used in semi-conductor and is non-absorptive at 1.2µm to 6µm IR regions. It is used here as an optical component for IR region applications.

- These silicon windows do not transmit at 1µm region or below, therefore its main application is in IR regions.
- Because of its high thermal conductivity, it is suitable for use as a high power laser mirror.







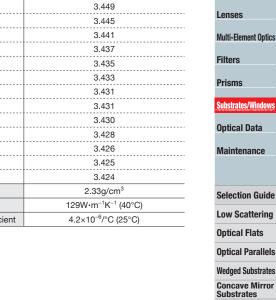


Specifications		Opt Coa
Material	Silicon Single Crystal	Opt
Parallelism	<3′	Me
Surface Quality (Scratch–Dig)	40–20	
Clear aperture	90% of real diameter	Bas
Guide		Ма
	regions optics, we recommend to use	Sta
ZnSe IR spectrum windows		
	les which are not listed on our website or ct our Sales Division with your requests.	Act
0,1		Adj
Attention		Мо
Silicon windows have a shi	ny metal surface; it reflects and absorbs	Sta
but does not transmit in the	visible regions.	
	flection results in transmittance loss of	Ligh
53%. (measured data 1 sur	face reflection at 27%)	Las
	Physics	
		Ind
Wavelength	Refractive Index	
[μm] 1.2	3.519	
1.2	3.503	0.11
1.0	3.494	Guide
1.5	3.483	Mirro
1.6	3.473	
1.8	3.462	Beam
2.0	3.454	Polari
2.0 2.2	3.454 3.449	
2.2	3.449	Lense
2.2 2.4	3.449 3.445	Lense
2.2 2.4 2.6	3.449 3.445 3.441	Lense Multi-E
2.2 2.4 2.6 2.8	3.449 3.445 3.441 3.437	Lense Multi-E Filters
2.2 2.4 2.6 2.8 3.0	3.449 3.445 3.441 3.437 3.435	Lense Multi-E Filters
2.2 2.4 2.6 2.8 3.0 3.4	3.449 3.445 3.441 3.437 3.435 3.433	Lense Multi-E Filters Prism
2.2 2.4 2.6 2.8 3.0 3.4 3.6	3.449 3.445 3.441 3.437 3.435 3.433 3.433 3.431	Lense Multi-E Filters Prism <u>Substra</u>
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8	3.449 3.445 3.441 3.437 3.435 3.435 3.433 3.431 3.431	Lense Multi-E Filters Prism <u>Substra</u>
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8 4.0	3.449 3.445 3.441 3.437 3.435 3.435 3.433 3.431 3.431 3.431 3.430	Lense Multi-E Filters Prism <u>Substra</u> Optica
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8 4.0 4.5	3.449 3.445 3.441 3.437 3.435 3.433 3.433 3.431 3.431 3.431 3.430 3.428	Lense Multi-El Filters Prism <u>Substra</u> Optica
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8 4.0 4.5 5.0	3.449 3.445 3.441 3.437 3.435 3.433 3.431 3.431 3.430 3.428 3.426	Lense Multi-El Filters Prism <u>Substra</u> Optica
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8 4.0 4.5 5.0 5.5	3.449 3.445 3.441 3.437 3.435 3.433 3.431 3.431 3.430 3.428 3.425 3.424 2.33g/cm³	Lense Multi-El Filters Prism <u>Substra</u> Optica Maint
2.2 2.4 2.6 2.8 3.0 3.4 3.6 3.8 4.0 4.5 5.0 5.5 6.0	3.449 3.445 3.441 3.437 3.435 3.433 3.431 3.431 3.430 3.428 3.425 3.424	Polari Lense Multi-El Filters Prism Substra Optica Maint Select Low S

Specifications Diameter ϕ D Thckness t Part Number [mm] [mm] OPSI-30C03-2-3 φ30 3 OPSI-40C04-2-3 φ40 4 OPSI-50C05-2-3 φ50 5

Com	patib	le Optic I	Mounts	

LHF-30S, -40S, -50S



Application Systems

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