

# Silicon(Si) Optics

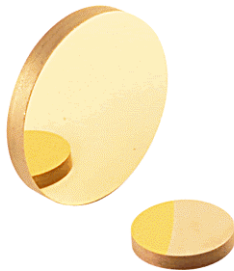
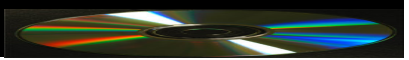
Laser Mirrors

Laser Cavity Output Coupler

Self-Q-Switching Saturable Absorber

**PHOTONIK** hv

PHOTONIK SPECTRUM WORLD



## FEATURES

*Novel cavity, thin-plate crystal optics*

## APPLICATIONS

*High power laser cavity optics*

*Self Q-switching component*

*Laser cavity Q-switch and output coupler as FP sub-cavity*

*Tunable cavity component*

*Laser cavity mode-locking for short laser pulse generation*

### General Specifications:

Substrate:

Diameter:

Thickness:

Clear Aperture:

Surface Quality:

Parallelism:

Optical Coating:

Resolved by  
600line/mm grating  
Silicon(Si), single crystal  
0.5 inch(12.7mm)  
400um, 600um,typ;  
or per request  
> 80%  
10 – 5 scratch and dig  
< 1'

Coating Type	A	B	C	D	E
Surface -1	AR 1000~1100nm	AR 1000~1100nm	No Coating	No Coating	No Coating
Surface -2	AR 1000~1100nm	R=98% 1000~1100nm	R=98% 1000~1100nm	AR 1000~1100nm	No Coating

Damage Threshold:

Package:

> 10<sup>6</sup> W/cm<sup>2</sup>; 10ns @ 1064nm pulse

Un-mounted/1" mounted(ring-retaining)

### Ordering Information:

**POC-SI** — <Coating Type> — <Mounting Type>

A: Type A

B: Type B

C: Type C

D: Type D

E: Type E

M: 1" Mounted

U: Un-mounted

*Photonik reserves the rights to change product designs and specifications at any time without notice.*

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