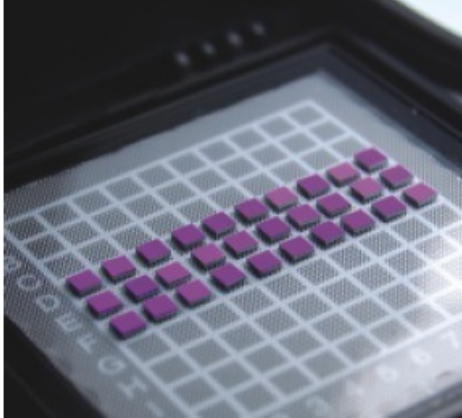


# Solid Silicon Etalon



## Features

- High Precision FSR Tolerance
- High Precision Reflection Ripple Tolerance
- High Precision Reflection IL Tolerance
- High PMD Tolerance
- Temperature Sensitive

## Applications

- WDM Networks
- Tunable Filter
- Dispersion Compensation

Solid silicon etalons are often used as tunable dispersion compensators and as optical frequency discriminators. Rapid tuning and uniform heat distribution can be achieved by controlling the transmission properties of the etalon through refractive index modulation.

## Capability

Parameter	Unit	Unit
Material		Silicon
Dimension Tolerance	mm	+/-0.05
Flatness		$\lambda/20@632.8\text{nm}$
Typical FSR	GHz	25, 50, 100
Typical FSR Tolerance	GHz	+/-0.1 for 100GHz
Surface Quality (scratch/dig)		40/20 or better
Parallelism	arc second	<0.5
Typical Reflection Ripple	dB	<0.1
Typical PMD	ps	<0.5
Typical Coating Spec		S1: R+/-0.5%, S2: R>99.98% or S1: R=36+/-0.5%, S2: R>99.98% @C band, 0-2 AOI