

Solid Silicon Etalon

Applications:

- WDM Networks
- Tunable Filter
- Dispersion Compensation



Features:

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.

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

Capability

Parameter	Unit	
Material		Silicon
Dimension Tolerance	mm	+/-0.05
Flatness		1/20@632.8nm
Typical FSR	GHz	25, 50, 100
Typical FSR Tolerance	GHz	+/-0.05 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% C band, 0-2° incidence angle