

quotation.

Schematic

Incident light (white light)

ont Surface: ielectric multi-layer coating

## Etalon Custom-made



Pipe

Air hol

Spacer AR AR

#### Etalon is made of two parallel high reflecting mirrors and used as a narrow band filter. Widely used in astronomical observation and interferometer measurement.

The etalons are customized according to your application; we are proposing 4 basic choices. Please see the illustrations.
 Please fill your requirement details onto the following inquiry form; our sales division personnel will contact you for a

Application Systems

Optics & Optical Coatings

Holders

Bases

Manual Stages

Actuators

Motoeized Stages

Light Sources

Index

Guide

Mirrors Beamsplitters Polarizers



Rear Surface: Dielectric multi-layer coating

Outgoing beam (Spectral emission line)

ustration is a sample f solid type Etalon 
 Specifications

 Material
 Synthetic fused silica

 Surface flatness of substrate
  $<\lambda/20$  ( $\lambda$ =632.8nm)

 Incident angle
 0°

#### Attention

If the angle of incident is not correctly set the transmittance wavelength may be displaced or the light does not transmit as planned.

 Question about the characteristic of the finesse or the transmission of the Etalon, please contact our International Sales Division.

Tube type: pair Etalon

4 pieces pair Etalon

The lead time of some model are expected to be long for further information, please contact our International Sales Division.

#### **Outline Drawing**



Simple structure and easy to use but the characteristic depends on the refractive index of the glass.

## •3 pieces pair Etalon Space



Air spaced with no effects from refractivity of the glass. The resonator is uncovered, easy to be effected by noise

 $\label{eq:FSR} FSR \ (Free \ Spectral \ Range).$   $R = \ Dielectric \ multi-layer \ coating \ (high \ reflectance) \qquad AR = \ Anti-reflective \ coating$ 

Multi-Element Optics
Filters

Lenses

### Prisms

Substrates/Windows

Optical Data

optiour butu

Maintenance

Selection Guide ND Filters Diffusers Colored Glass Filters

**Dielectric Filters** 

Etalon



Estimation Order

Air spaced with no effects from refractivity of the glass. The resonator length is narrow which enable to get a wider

Air spaced with no effects from refractivity of the glass.

AF

Date

# □ To: Sigma Koki Co., Ltd. **FAX** +81-3-5638-6550

	FAX		Name Estimate	E-mail	by Date	(Tentative name is okay
	FAX		Estimate	□ Yes: b	by Date	(Tentative name is okay
			Estimate		y Date	(Tentative name is okay
			Estimate		y Date	(Tentative name is okay
			Estimate		y Date	
			Estimate	□ No		
			Budget			JP Yen
nn	n Diameter	(D)		nm	Quantity	nm
nn	n Incident be	am		nm	Space	%
* Write more detailed specifical	tions here. (Ro	ough illustr	ration is accep	table.)		
	Write more detailed specifica	Write more detailed specifications here. (Re	Write more detailed specifications here. (Rough illusti	Write more detailed specifications here. (Rough illustration is accep	Write more detailed specifications here. (Rough illustration is acceptable.)	