



# TE1000 Electro-Optic Tunable Etalon

## Features

- Polarization Independent
- Wide Bandwidth
- Optional Aperture Sizes
- Optional FSR
- Electronic Control
- Low Operating Voltage
- Fast Electro-Optic Operation



## Applications

- Interferometers
- Optical Resonators
- Tunable Lasers
- Spectroscopy

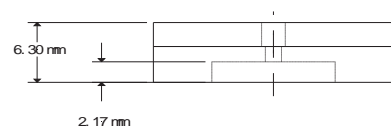
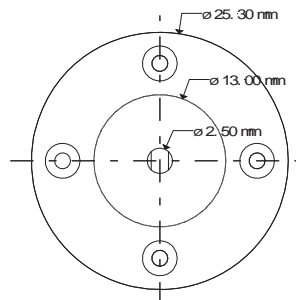
## Performance Specifications

Parameter	Typ
Wavelength Range (nm)	1530-1570
Clear Aperture (mm)	2
Optical Loss (dB)	<0.6
FSR (nm)	4.8
FSR Shift Range* (nm)	>5
Speed** (Mhz)	>1.5
Operating Voltage* (V)	0~250
Input capacitance (pF)	500

\*please contact for the larger shift ranges

\*\*See application notes

## Dimensions



AC Photonics' TE1000 tunable optical etalon incorporates a novel monolithic PLZT electro optic chip. PLZT chip refractive index is controlled and changed electronically. As a result optical free spectral range (FSR) shifting is fast and accurately controlled. Device has been designed and optimized for a wide range of FSRs with minimum optical loss.

It is based on tried and tested PLZT technology with proven reliability.

The devices are packaged into a compact low profile disks designed to be used in 1 inch diameter optical mirror and lens mounts. They are compatible with standard fiber-optic collimators and external free space optics. The TE1000 can be used in interferometers, optical resonators and lasers.

