



# R1800 Electro-Optic Tunable Phase Shifter

AC Photonics' R1800 tunable optical phase shifter incorporates a novel monolithic PLZT electro optic chip. PLZT chip refractive index is controlled and changed electronically. As a result optical phase shifting is fast and accurately controlled. Device has been optimized to diminish Fresnel reflections and wavelength ripple on the facets. 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 R1800 can be used in Michelson, Mach-Zender interferometers, optical resonators and lasers.

### Features

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



### Applications

- Interferometers: Michelson, Mach-Zender
- Optical Resonators
- Lasers
- Interferometric Sensing

## Performance Specifications

Parameter	Typ
Wavelength Range (nm)	1530-1570
Clear Aperture (mm)	2
Transmission (%)	>98
Phase Shift (deg)	0~360
Half wave voltage* (V)	116
Input capacitance (pF)	500

\*Measured at 1550nm

## Dimensions

