

Features

- No moving parts, best reliability
- Ultra fast tuning speed
- Compact size
- Low power consumption



Applications

- Sensor system
- System monitoring
- Test & measurement
- Instrumentation

Product Description

Primanex MagLight™ EVOA is based on all-solid-state magneto-optic technology (MO-EVOA) which eliminates need of any mechanical moving parts.

The attenuation of the optical power is realized by utilizing Faraday Effect. Light coming into the input fiber is attenuated according to the electrical control signal applied between the lead pins. It provides ultra-fast response and ultra-high reliability and durability due to non-moving mechanism. The fast tuning speed (less than 0.3ms) can satisfy real time operation.

Specifications

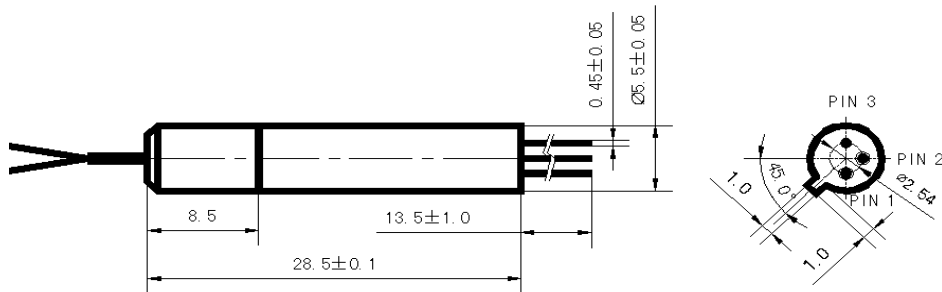
Item	Unit	Parameters	Notes
Tuning Type		Blocking When Power Off	
Operating Wavelength Range	nm	C-band 1525 ~ 1565	Other bands optional
Attenuation Range	dB	25	
Insertion Loss	dB	0.6 (Typ), 1.0 (Max)	@0dB attenuation
Return Loss	dB	45	
PDL**	dB	0.3 (Typ), 0.5 (Max)	
WDL**	dB	0.3	
Tuning Resolution	dB	Continuous	
Response Time	ms	≤ 0.3	100μs optional
Maximum Optical Power	mW	500	
Storage Temperature	°C	-40 ~ 85	
Operating Temperature	°C	-5 ~ 70	
Dimension	mm	φ5.5 × 28.5	
Fiber Type		Corning SMF-28e+	

*. All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

**. For attenuation up to 15dB.

***. Specifications are subject to change without notice.

Dimensions Drawing (Unit: mm)



Pin definition

Pin 1	Pin 2	Pin 3
0 ~ +6	GND	N/A

Electrical specifications

Parameter	Typical	Unit
Tuning Current	<40	mA
Tuning Voltage	≤ 6	V

Ordering Information(Example:EVOA1-2R111110)

EVOA 1 - 2R	1			
Operating Wavelength	Attenuation Range	Fiber Tube	Fiber Length	Connector Type
1. C band 1525~1565 nm	1. 15 dB	1. 250 μm Fiber	1. 0.5 +/- 0.1 m	0. No Connector
2. L Band	2. 25 dB	2. 900 μm Fiber	2. 1.0+/-0.1 m	1. FC/UPC
3. Others	3. Others	3. Others	3. Others	2. FC/APC
				3. SC/UPC
				4. SC/APC
				5. LC/PC
				6. MU/PC
				7. Others

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