

Polarization Controller

Product Description

Agiltron polarization controller converts any input state of polarization to any selectable output state of polarization by applying a set of electrical driving signals. It is based on 4 fast speed non-mechanical and highly stable electro-optical birefringence phase retardation plates. With a Agiltron firmware, it achieve endless polarization controlling, maintaining a constant output polarization without the need for resetting. The polarization controller is designed to meet the operation requirements of fast response and continuous operation to provide an ultimate solution for polarization selection.

Agiltron provides control circuit and software assistance

Performance Specifications

Polarization Controller	Min	Typical	Max	Unit
Wavelength	1250		1650	nm
Insertion Loss ¹		1.8	3	dB
Polarization Dependent Loss			0.2	dB
Return Loss	45	50		dB
Response Time	0.3		1	μs
Operating Optical Power			500	mW
Operating Temperature		-5* ~ 70		°C
Storage Temperature		-40 ~ 85		°C
Package Dimensions		45X145		mm
Input Fiber Type		SMF-28		
Output Fiber Type		PMF		

1. Excluding connectors.

Features

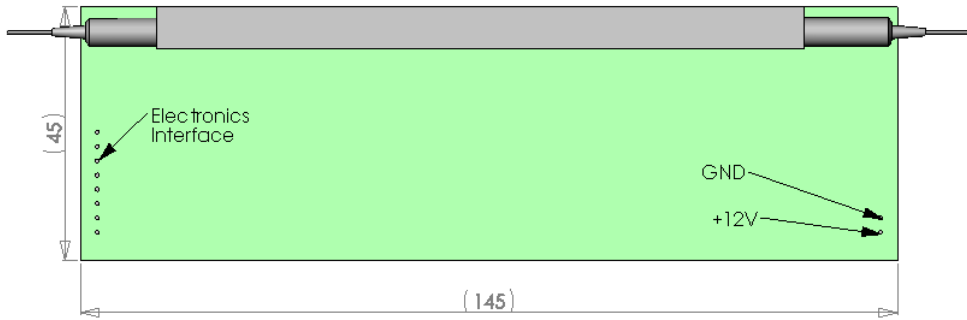
- No Moving Parts
- High Reliability
- Solid-State High Speed
- Low Insertion Loss
- Compact Size
- Low Power Consumption

Applications

- Polarization Scrambler
- Polarization Management
- Polarization Mode dispersion compensation
- Instrumentation

Polarization Controller

Mechanical Dimensions (mm)



Electrical Driver Inputs

Control Signal	0-5V
Power Supply	12V, 0.3A

Ordering Information

NOPC-	1 1	<input type="checkbox"/>	1	1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	State	Package	Fiber Type	Fiber Length	Connector	
		1310 = 3 1550 = 5 Special = 0			SMF-28 =1 Special=0	0.25m= 1 0.5m = 2 1.0 m= 3 Special =0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0	