

Polarization Controller

DATASHEET

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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 consists of 4 fast-speed electro-optical birefringence phase retardation plates. It is intended for customers to further incorporate sensors and auto-control firmware, to 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.

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

Specifications

Parameter	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		45 x 145		mm
Input Fiber Type		SMF-28		
Output Fiber Type		PMF		

Note:
[1]. Excluding connectors.

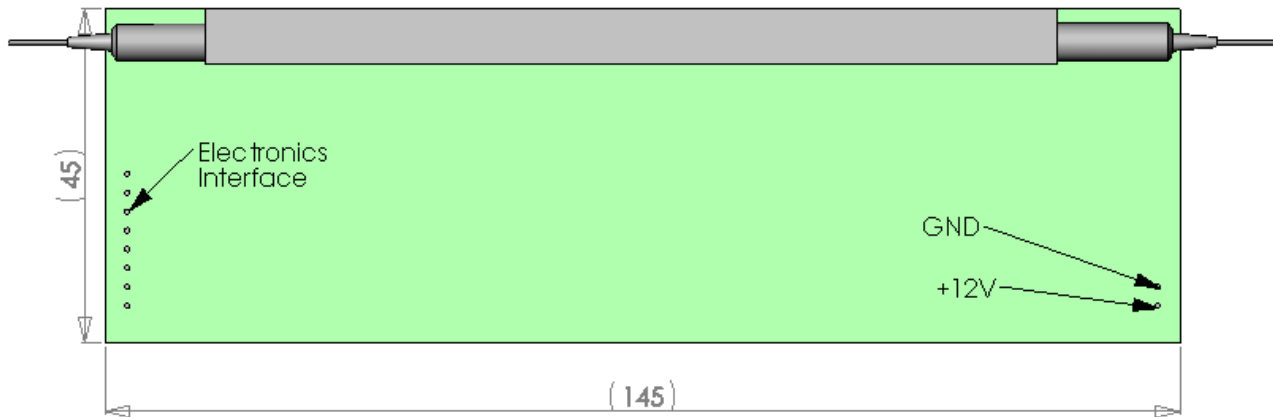
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Mechanical Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Electrical Driver Inputs

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

Ordering Information

Prefix	Type	Wavelength	State	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
NOPC-		1310 = 3 1550 = 5 Special = 0			SMF-28 = 1 Special = 0	Bare fiber = 1 900um loose tube = 3 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