

Endless Polarization Controller

(Preliminary and Patent Pending)

Product Description

Agiltron's endless polarization controller offers true endless conversion of state of polarization (SOP) for network applications where interrupts due to device resets are prohibited. It converts any SOP to a fixed and linear polarization state, or to a user-defined SOP. The incoming SOP can vary in any fashion, including unlimited rotation in one direction. The device utilizes Agiltron's fast and highly stable electro-optic plates controlled by a proprietary polarization-conversion algorithm which advantageously forgoes the need for resets.

Agiltron provides driving board and electro-optical plate configuration for software development.



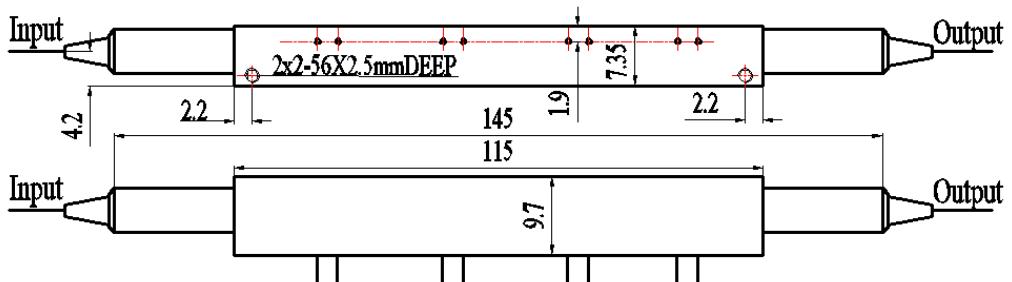
Performance Specifications

Endless Polarization Controller	Min	Typical	Max	Unit
Wavelength	1250	~ 1650		nm
Insertion Loss ¹	2.5	3	dB	
Polarization Dependent Loss		0.2		dB
Return Loss	50			dB
Tracking Response Time	50			μs
Recovery Time	400			μs
Operating Optical Power		400		mW
Operating Temperature	-5	~ 70		°C
Storage Temperature	-40	~ 85		°C
Power Supply	5			V
Input Fiber Type	SMF-28			
Output Fiber Type	PMF			

1.Excluding connectors

Endless Polarization Controller

Mechanical Dimensions (mm)



Ordering Information

NEPC-	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	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	

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