



# Miniature Fiber Optic Depolarizers

## Product Overview

The miniature, small footprint, depolarizer is designed to depolarize sources with greater than 6MHz linewidth (10m coherence length in fiber). The device is uni-directional for fiber systems using PM fiber and linear state of polarization aligned along the fiber axis.



## Depolarizer Options

The small footprint depolarizer is part of the Phoenix polarization sensitive range of passive depolarizers designed for operation with a variety of sources.

### SPECIFICATIONS:

Bandwidth	1530nm – 1570nm
Degree of Polarization <sup>1</sup>	<5%
Insertion loss	<1.5dB (1dB Typ.)
Return loss	>55dB
Source linewidth	>6MHz
Operating temperature range	-5°C to 70°C
Transportation/storage	-40°C to 85°C
Input Fiber type	PM PANDA
Output Fiber type	SMF28
Pigtails	0.8m fiber standard, 900um jacket optional
Connectors	Specify connector type
Dimensions	85x60x10mm

### Notes to Specifications:

All specifications are worst case for the wavelength range selected; actual products commonly exhibit better specification.

All depolarizers are individually tested.

1. The DOP for the depolarizer is dependent upon the source spectrum, please confirm selection with our sales representative.

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Wavelength:  
15 – 1530nm

Cable type:  
1 – 900µm loose tube

Input Connector:  
0 – none  
1 – FC/SPC  
2 – FC/APC  
3 – SC/SPC  
4 – SC/APC  
\* Others available

Output Connector:  
0 – none  
1 – FC/SPC  
2 – FC/APC  
3 – SC/SPC  
4 – SC/APC  
\* Others available

## Features & Applications

### FEATURES:

- Low DOP
- Low insertion loss
- Low back reflection
- Passive operation
- Rugged packaging

### APPLICATIONS:

- Optical source polarization randomization
- DFB lasers
- ASE, SLD and ELED sources
- Polarization measurement systems
- Optical fiber sensor systems
- Bragg grating applications

For more information please contact Phoenix sales:  
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