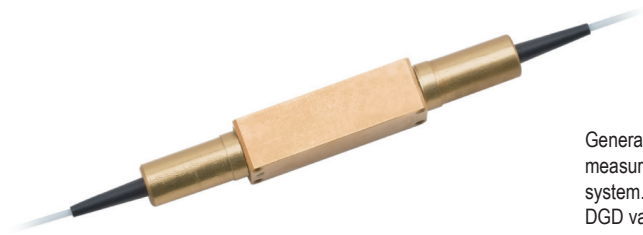# Fixed Differential Group Delay- PolaDelay™ (FDE-002)

General Photonics' fixed differential group delay lines eliminate the need for precise measurement of PM fiber lengths to add defined amounts of first order PMD to a system. DGD values of up to 45 ps are available in the standard size package. Larger DGD values are also available by special request.

Specifications:

Operating Wavelength	1550 ± 50 nm
Insertion Loss	0.8 dB typical, 1.0 dB max
DGD Value[1]	0 ps to 45 ps standard
DGD Calibration Accuracy	± (1 fs + DGD x 0.5%)
2nd Order PMD[2]	$< 30 \text{ ps}^2$
PDL	< 0.2 dB
Return Loss	55 dB
Operating Temperature	0 to 70 °C
Storage Temperature	-40 to 85 °C
Optical Power Handling	300 mW min.
Fiber Type	SMF - 28
Dimensions[3]	4.25" (L) × 0.31" (W) × 0.31" (H)

Note:
Values are referenced without connectors

1. DGD values cannot be continuously specified. Contact General Photonics for available values.
2. 2nd order PMD depends on DGD value.
3. Dimensions listed are for the standard package for DGD ≤ 45 ps. Package size may vary with DGD value.

Features:

- Large 1st order PMD up to 45 ps
- Compact size
- Low insertion loss

Applications:

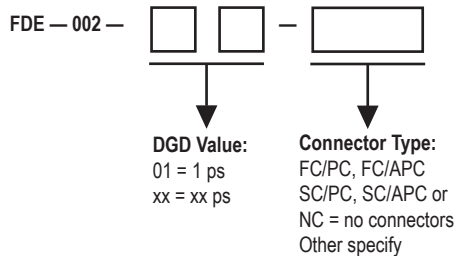- PMD emulation
- PMD compensation
- TDM bit alignment

Related Products:

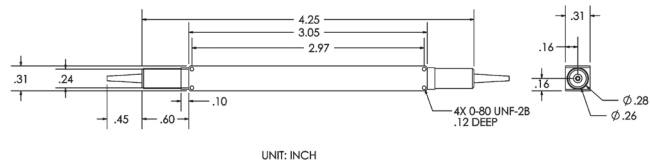- Polarization Measurement System (PSGA-101A)
- PMD Source (PMD-1000)

Tech Info:

- High accuracy polarization measurements using binary polarization rotators

Ordering Information:

FDE — 002 — ☐ ☐ — ☐☐☐

DGD Value:
01 = 1 ps
xx = xx ps

Connector Type:
FC/PC, FC/APC
SC/PC, SC/APC or
NC = no connectors
Other specify

Dimensions (in inches):

UNIT: INCH