



Gooch & Housego

NEW PRODUCT Preliminary Data Sheet



Motorised Variable Optical Delay Line

The Gooch and Housego variable optical delay line provides fast and accurate optical path length change in a compact housing. Based on a point-and-return architecture with a customisable chassis that can be adapted to incorporate additional optical components, the unit is designed to be easily incorporated into any modular OCT system architecture. Optical interface is through single fixed fibre pigtail which can be specified to any length and terminated with all commonly used optical connectors.

Key Features:

- Point-and-Return architecture
- Compact design
- Low Insertion Loss Variance
- Simple system integration
- Highly customisable
- Many fibre options available

Associated Documents:

- OCT Coupler 850nm & 1300nm
- OCT Coupler 1060nm
- Extreme Wideband OCT Coupler
- OCT Fibre Collimators

Wavelength Range	1220-1380*
Fibre Type	Corning SMF-28*
Optical Power	Exposure to continuous $\geq 10\text{mW}$
Optical Path Variation	0 - 120mm
Optical Delay Range	0 - 400ps
Travel Speed	30mm/s max
Travel Resolution	25 μm
Optical Delay Resolution	0.083ps
Double Pass IL of Optical System	$\leq 1.5\text{dB @ } 1310\text{nm}$
Double Pass IL variation across the entire Travel Range	$\leq \pm 0.5\text{dB}$
Double Pass WDL	$\leq \pm 0.3\text{dB } 1220 - 1380\text{nm}$
TDL 15 - 50°C	$\leq 0.5\text{dB}$
Return Loss	$> 55\text{dB}$
Dimensions	Length = 192mm Width = 80mm Height = 65mm
Optical Connector type	All common connector types available
Electrical Connection	HIROSE connector DF11-16DS-2C
Power supply requirement	5VDC/200mA

*Other wavelengths and fibre types available by request

Contact: oct@goochandhousego.com

www.goochandhousego.com