

Electrical and Manual Variable Optical Delay Line

The Variable Optical Delay Line is designed for controlling the optical path delay precisely. These devices are based on our unique optical alignment technology. Manual optical delay lines with model number **OEVDL-50**, **OEVDL-100** and **OEVDL-200** will provide 25 mm, 50 mm and 100 mm air-path variation, corresponding to optical delays of up to 165 ps, 330 ps, and 650 ps respectively. Corresponding electrical version are available with model numbers **OEVDL-50E**, **OEVDL-100E** and **OEVDL-200E**. This product is an ideal solution for network equipment, test instrument and lab testing applications.

Applications

- Optical time domain effect measurement
- PMD compensation experiment
- Time division multiplexing
- Fibre interferometry
- Optical signal processing
- Signal synchronization
- Network equipment
- Lab testing

Features

- Up to 650 ps delay
- Compact size
- Low PDL (< 0.1 dB)
- Low insertion loss variation (< 0.25 dB)
- SM and PM fibre pigtailed versions
- Low cost

Specifications (Manual)

Parameter	Unit	Value		
		OEVDL-50	OEVDL-100	OEVDL-200

Operating Wavelength	nm	600 - 1600		
Bandwidth	nm	100		
Optical Delay range	ps	0 - 165	0 - 330	0 - 650
Insertion Loss	dB	< 1.5		
Resolution	ps	0.2		
Return Loss	dB	> 50		
Power Handling	mW	500		
Fibre Type	-	SM, PM		
Dimensions (Width x Length x Height)	mm	30 x 120 x 30	30 x 50 x 150	30 x 50 x 150
Operating temperature	°C	0 - +50		
Storage Temperature	°C	-40 - +70		



Figure 1: Manual Tunable Delay Line

Specifications (Electrical)

Parameter	Unit	Value	
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		OEVDL-50 E	OEVDL-100 E	OEVDL-200 E
Operating Wavelength	nm	600 - 1600		
Bandwidth	nm	100		
Optical Delay range	ps	0 - 165	0 - 330	0 - 650
Insertion Loss	dB	< 1.5		
Resolution	ps	0.2		
Return Loss	dB	> 50		
Power Handling	mW	500		
Fibre Type	-	SM, PM		
Dimensions (Width x Length x Height)	mm	60 x 120 x 25		
Operating temperature	°C	0 - +50		
Storage Temperature	°C	-40 - +70		



Figure 2: Electrical Tunable Delay Line

Note: All specifications are subject to change without notice