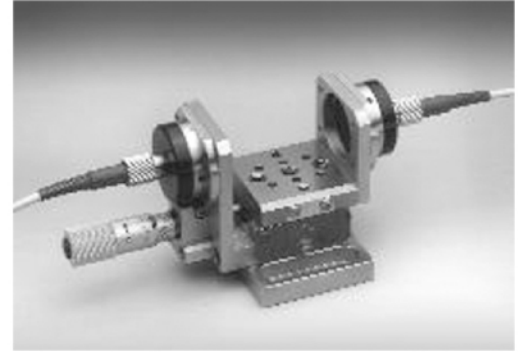


A Variable Delay Line is a modified FiberBench that is actually a stainless steel precision translation stage on which are mounted two FiberPorts. Used in applications requiring a variable optical path length, the VDL Variable Delay Line has a precision z-axis translation slide with micrometer actuator. With the VDL it is possible to control with high resolution the air-path length of the collimated beam between the FiberPorts. In order that the system retain the inherent stability of all FiberBenches, our VDL Variable Delay Line is designed to eliminate backlash and cross-talk between axes, and to repeat within 1  $\mu\text{m}$  (~3.3 f-s) anywhere over its travel range.



### STANDARD WAVELENGTHS (nm)

633	780	850	1310
670	810	980	1550
690	830	1064	

Part Number	Air Gap Change	Total Delay (ps)	Fiber In/Out	Insertion Loss	
				1310, 1550 nm	633 - 1064 nm
VDL-FFB-25-P- $\lambda$ -X or X/Y	25 mm	0 - 83ps	PM	0.5 - 1.5 dB	0.8 - 1.8 dB
VDL-FFB-25-S- $\lambda$ -X or X/Y	25 mm	0 - 83ps	SM	0.5 - 1.5 dB	0.8 - 1.8 dB
VDL-FFB-13-P- $\lambda$ -X or X/Y	13 mm	0 - 43ps	PM	0.5 - 1.5 dB	0.8 - 1.8 dB
VDL-FFB-13-S- $\lambda$ -X or X/Y	13 mm	0 - 43ps	SM	0.5 - 1.5 dB	0.8 - 1.8 dB

Note : 1  $\mu\text{m}$   $\approx$  3.3 p-s delay

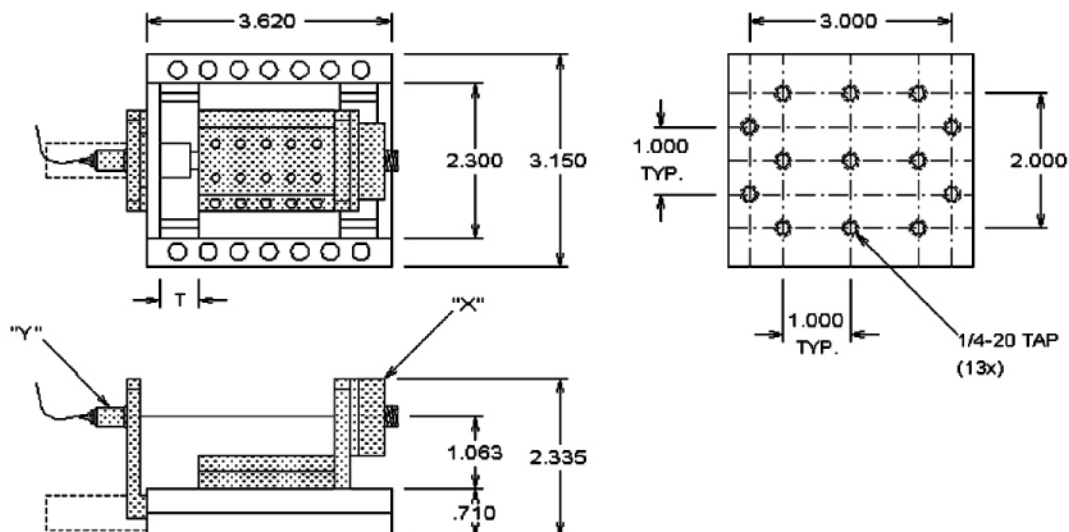
When ordering, specify options as follows:

$\lambda$  : Wavelength in nm

X : Connector Interface (FC/APC)

X/Y : Permanent Pigtail one end, connector other end

For example VDL-FFB-13-S-1550-X



X: FiberPort OPTION  
 Y: PIGTAIL OPTION  
 T: TRAVEL: 0-25 mm (83 ps)

VDL-FFB-25- $\lambda$ -Y/X IS SHOWN  
 VDL-FFB-25- $\lambda$ -X/X IS ALSO AVAILABLE