

# LN MODULATORS

## 40Gbit/s Dual Electrode Intensity Modulator

### Specifications

Model		T-DEH1.5-40PD-ADC
Operating Wavelength		1.55 $\mu$ m
Insertion Loss		$\leq 6.0$ dB
Driving Voltage @1kHz		$\leq 6.0$ V
Driving Voltage( $V\pi$ )@1GHz*1		$\leq 5.5$ Vpp(Typ $\leq 6.0$ Vpp@40Gbit/s)
Optical Bandwidth*2		$\geq 25$ GHz
ON/OFF Extinction Ratio		$\geq 20$ dB
Polarization Extinction Ratio		$\geq 20$ dB
Optical Return Loss		$\geq 30$ dB
Maximum Input Power*3		$\leq 20$ mW
Electrical Connector		RF:V-connector DC:K-connector
Optical Fiber	Input	0.9mm $\Phi$ PMF FC connector
	Output	0.9mm $\Phi$ PMF FC connector
Fiber Lead Length		$\geq 0.7$ m
Operating Temperature		0 $^{\circ}$ C~70 $^{\circ}$ C
Polarizer		Included

\*1: With the use of one electrode only.

\*2: 3dB down(1GHz reference)

\*3: Input polarization must be aligned to the slow axis of polarization maintained fiber before the maximum input power is inserted.

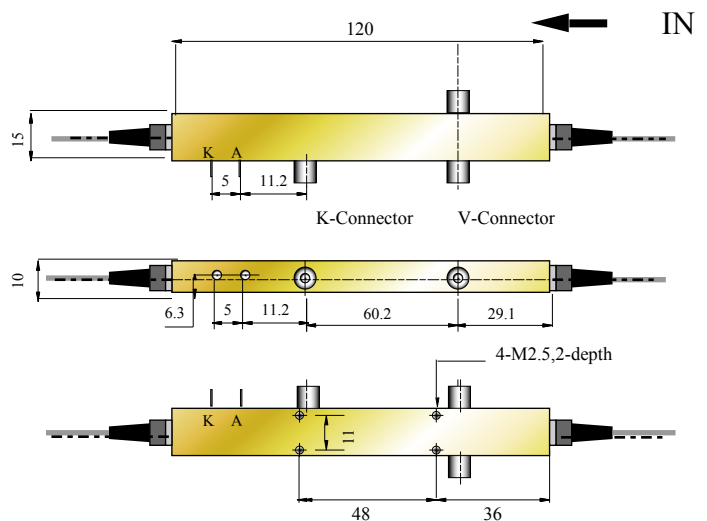
### Ordering Information

T-DEH1.5-40PD-ADC-06-006

\* : Standard optical connector is shown in the specification.  
If you need the different connector(s), please let us know.

\* : The polarization state of the PMF is slow axis aligned.

### Package size(Hermetically-sealed)



[Dimension:mm]

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Specifications subject to change without any notice.

Manufactured by :

**SUMITOMO OSAKA CEMENT CO.,LTD.**  
OPTOELECTRONICS BUSINESS DIVISION