

# LN MODULATORS

## 40Gbit/s DQPSK LN Modulator (Dual Electrode Model)

### Specification

Model		T·SBZH1.5-20PD-ADC-P-Z
Operating wavelength		1.55μm
Insertion loss		≤9.0dB
Optical bandwidth *1		≥20GHz
ON/OFF extinction ratio @DC port		≥20dB
Driving voltage @DC 1KHz *2		DC PortA≤5.0V, DC PortB≤5.0V, DC PortC≤15.0V
Driving voltage (Vπ) at 20Gbps *2		RF PortA≤4.0V, RF PortB≤4.0V
Polarization extinction ratio		≥20dB
Optical return loss		≥30dB
Maximum input power *3		50mW
Electrical connector		GPPO connector
Optical fiber	Input	0.4mmΦPMF
	Output	0.4mmΦPMF
Fiber lead length		Min0.7m (for both ports)
Operating temperature		0°C~70°C
Polarizer		Included

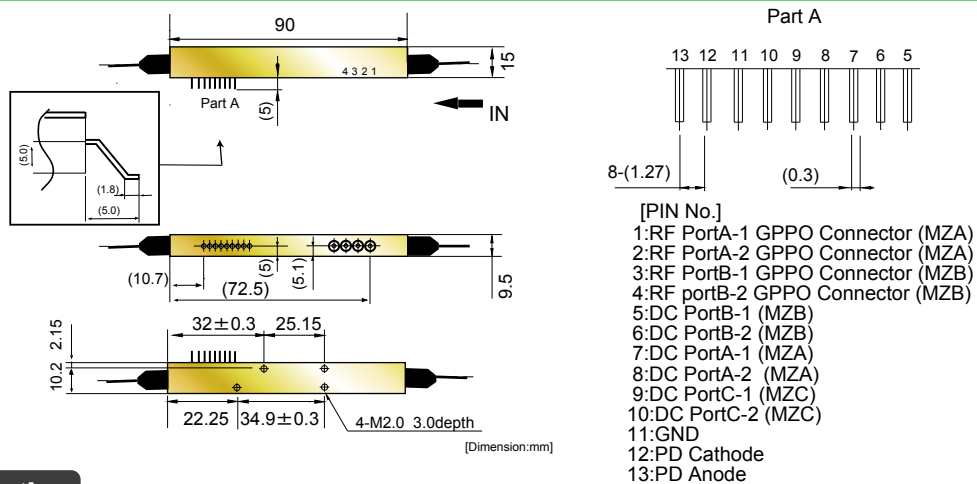
PD characteristic	
Monitor PD sensitivity	0.04~0.40mA/mW
Monitor PD extinction ratio	≥8dB

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

\*2: The use of one electrode only.

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

### Package size(Hermetically-sealed)



### Ordering Information

T·SBZH1.5-20PD-ADC- **P - Z**

Z: Optical Connectors*1,2	
FC/SPC (without key ring)	FN
FC/SPC (with key ring)	FK
SC/SPC	SC
FC/APC(Angled PC)	FA
Other	O

\*1: When Other 'O' is selected in the above ordering code, please specify your requirements with as much detail as possible.

\*2: The Polarization state of input and/or output PMF is slow axis aligned.

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Specifications subject to change without any notice.

Manufactured by :

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