

00138016

Component

MXER-LN-20-PD-P-P-00-00-30dB

Serial number

15192-30

WARNING : the short-circuit spring on the DC pins must be removed before use

	Packaging-interfaces
Input fiber	Polarization maintaining, Panda type
Output fiber	Polarization maintaining, Panda type
Jacket type	900µm outside diameter
Input fiber length	1.5 meter
Output fiber length	1.5 meter
Input RF port	50Ω, female K
	S/N: 1 2 3 4 RF RF INPUT 1 GROUND 2 BIAS INPUT A DIVISION

Thickness : 9.6mm Material : KOVAR

Measured with : Emcore laser module

λ= 1550 nm

Parameters	Conditions		Measurements	Specifications
Insertion Loss		dB	4,3	≤5
DC extinction ratio		dB	>30	>30
Internal photodiode responsivity	Reference : input power	A/W	0,007	
Vp RF Port	@50kHz	V	5,6	≤6.5
Vp DC Port	@100Hz	V	5,8	≤7
Electrical return loss S11	between 0 – 20GHz	dB	-11,4	≤-10
Electro-optic bandwidth S21	@ -3dB, from 2GHz	GHz	>18	>18

Position	Name/Visa	Date
Test engineer	A.BAUD	2024-02-12

Precautions of use :

For bias control and modulation signal, please refer to the Application Note "LiNbO3 Intensity Modulators Bias Control and Modulation Driving". This application note aims to give intensity modulators users the basics to select and apply the proper RF and bias voltages to their device and can be downloaded from our company website www.photonics.ixblue.com

In order to avoid any damage to the modulator and to keep its performance at maximum, please pay a special attention to the following :

When handling the modulator, do not apply any excessive tensile strength neither bend on the fiber pigtails.

•• Always keep the optical connectors end face protected and clean the optical connector end face with appropriate tissue before

••• Clean RF connector with dry air before mating and use a torque wrench for tightening.

•••• Respect maximum ratings mentioned in accordance with specifications (www.exail.com/event_category/photonics.com)

••••• At the maximum optical power, fusion splices are expressly recommended to avoid permanent damage on optical connectors.

•••••• In the case of optical instabilities, when operating at high optical power or shorter wavelength, it might be necessary to heat up the modulator (max 50°C)



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