

PAA00772

Component

MX2000-LN-01-00-P-P-FA-FA

Serial number

14144-35

## 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 optical connector (orientation)	FC/APC	Key // slow axis	
Output optical connector (orientation)	FC/APC	Key // slow axis	
Input fiber length	1.5 meter		
Output fiber length	1.5 meter		
	50Ω, female K		
Input RF port Product dimension and pin-out	50	0Ω, female K	
		0Ω, female K	
Product dimension and pin-out	S/N : 1 2 3 4		
Product dimension and pin-out	S/N :	RF RF INPUT 1 GROUND	
Product dimension and pin-out	S/N :	RF RF INPUT 1 GROUND 2 BIAS INPUT	
Product dimension and pin-out	S/N :	RF RF INPUT 1 GROUND	

Thickness : 9.6mm

Package dimensions in mm

Material : KOVAR

Measured with : Eblana Laser Diode λ= 2004 nm

85 95

Parameters	Conditions		Measurements	Specifications
Insertion Loss	with input connection	dB	3,6	≤5.7
DC extinction ratio		dB	>20	>20
Vp RF Port	@50kHz	V	4,9	≤6.5
Vp DC Port	@100Hz	V	10,4	≤13
Electrical return loss S11	between 0 – 2GHz	dB	-12,5	≤-10
Electro-optic bandwidth S21	@ -3dB, from 500MHz	GHz	>1	>1

Position	Name/Visa	Date
Test engineer	A.BAUD	2024-07-08

## 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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