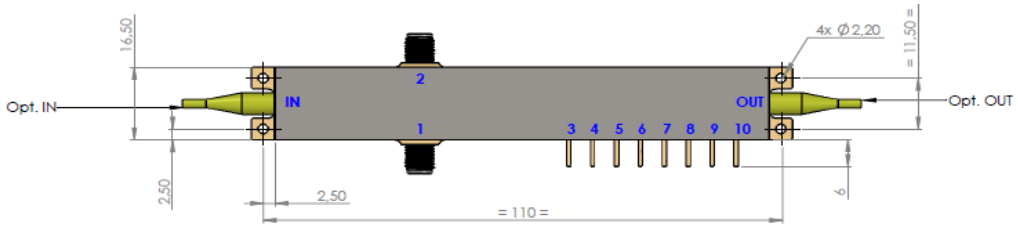
Acceptance test report

00243493

Component	**MXIQ-LN-30-00-P-P-00-00**
Serial number	**14691-04**

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 connectors	50Ω Anritsu female K

Product dimension and pin-out



1	RF1 INPUT
2	RF2 INPUT
3	GROUND
4	DC2
5	DC1
6	DC3
7	PHOTODIODE 1 ANODE
8	PHOTODIODE 1
9	PHOTODIODE 2
10	PHOTODIODE 2 ANODE

Thickness : 9.6mm
Material : KOVAR

Package dimensions in mm

Measured with : 3Sphotonics DFB 1905LMI model λ= 1550nm

Parameters	Conditions		Measurement		Specifications
Insertion Loss	with input connection	dB	5.2		≤7
Vπ RF1 & RF2 Port	@50kHz	V	5.1	5.4	≤7
Vπ DC1 & DC2 Port	@100Hz	V	6.3	6.3	≤7.5
Vπ DC3 Port	@100Hz	V	9.6		≤12
Electrical return loss S11	between 0.04 – 20GHz	dB	-12.2	-10.0	≤-10
Electro-optic bandwidth S21	@ -3dB, from 2GHz	GHz	>20	>20	

Position	Name/Visa	Date
Test engineer	M.VOILLY	2023-12-07

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 connecting.

••• 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.

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