

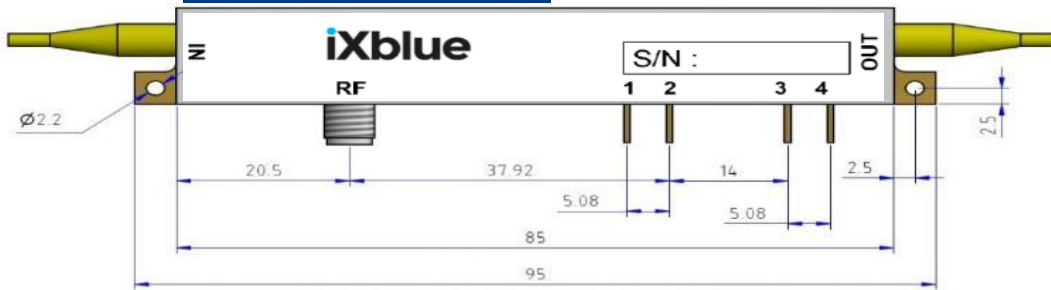
## Acceptance test report

Component	MXAN1300-LN-20-00-P-S-FC-FC
Serial number	13340-05
Reference number	MZ6-5879

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

Packaging-interfaces	
Input fiber	Polarization maintaining, Panda type
Output fiber	Single mode type, SMF 28
Jacket type	900µm outside diameter
Input optical connector (orientation)	FC/UPC
Output optical connector (orientation)	FC/UPC
Input fiber length	1.5 meter
Output fiber length	1.5 meter
Input RF connector	50Ω female K

### Product dimension and pin-out



RF	RF INPUT
1	GROUND
2	BIAS INPUT
3	NC
4	NC

Thickness : 9.6mm  
Material : KOVAR

Package dimensions in mm

Measured with : Gooch & Housego DFB model  $\lambda = 1310 \text{ nm}$

Parameters	Conditions	Measurement
Insertion Loss	with input connection	dB 5,0
DC extinction ratio		dB >20
$V_{\pi}$ RF Port	@50kHz	V 5,1
$V_{\pi}$ DC Port	@100Hz	V 4,0
Electrical return loss S11	between 0 – 20GHz	dB -9,0
Electro-optic bandwidth S21	@ -3dB, from 2GHz	GHz >20

Position	Name/Visa	Date
Test engineer	A.ECHAMPE	2022-01-12
Quality		2022-01-12

## 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](http://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.photonics.ixblue.com](http://www.photonics.ixblue.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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