

NIR-MPZ-LN-20-00-P-P-FA-FA

PRELIMINARY SPECIFICATION

All specifications given at 25°C, 1060 nm, unless differently specified. This data-sheet is based as per specifications SP-0242-PR-01.

ELECTRICAL

		Min	Typ	Max
Electro-optic bandwidth S_{21} @-3 dB, from 2 GHz	GHz	-	16	-
Usable electro-optic bandwidth S_{21} ⁽¹⁾	GHz	-	30	-
Electrical return loss S_{11} 0 - 20 GHz	dB	-	-13	-
V_{π} RF electrodes @ 50 kHz	V	-	3.5	-
V_{π} RF electrodes @ 20 GHz	V	-	6	-
RF ports impedance matching	Ω	-	50	-

(1) No sharp dips in the S_{21} response.

OPTICAL

Crystal	Lithium Niobate Z-Cut Y-Prop			
Wavelength of operation	nm	950	1060	1150
Insertion loss, @ max of transmission, w/o connectors	dB	-	3	4
Polarization extinction ratio	dB	20	-	-

OPTICAL INTERFACES

Input and output fibers	Polarization maintaining 980 nm, Corning PM 98-U25D length: 1.5 meter, buffer diameter 900 μ m			
Package size (L x l x H)	85 x 15 x 9.65 mm ³			
Input RF connector	Female K			
Optical connectors	FC/APC (slow axis parallel to the connector key)			

ENVIRONMENTAL

Operating temperature	-30 °C to +70 °C			
Storage temperature	-40 °C to +85 °C			

MAXIMUM RATINGS

Maximum RF input power	+33 dBm			
Maximum optical input power	+25 dBm			

MECHANICAL DRAWING

