

MPZ-LN-10-00-P-P-FA-FA-LIL-POL-DCC

All specifications given at 25°C, 1550 nm. As per internal specifications SP-0239-PR-02.

ELECTRICAL				
		Min	Typ	Max
Electro-optic bandwidth S_{21} @-3 dB (from 2 GHz)	GHz	10	12	-
Electrical return loss S_{11} 0 - 10 GHz	dB	-	-17	-13
V_{π} RF electrodes @ 50 kHz	V	-	4	5
V_{π} RF electrodes @ 10 GHz	V	-	6	7
V_{π} DC electrodes	V	-	3.3	6
Ripple S_{21}	dB	-	0.5	1
RF port impedance matching	Ω	-	50	-
OPTICAL				
Operating wavelength	nm	1520	1550	1590
Insertion loss (without connector ⁽¹⁾)	dB	-	2.5	3
Optical return loss	dB	-40	-45	-
Polariser	-	Embedded		
INTERFACES				
Input and output fibers	Polarization maintaining 1550 nm Corning PM 15-U25D length: 1.5 meter, buffer diameter: 900 μ m			
Package size	85 x 15 x 9.65 mm ³			
Input RF connector ⁽²⁾	Female K			
DC electrodes	PIN – Feed through			
Optical connector	Input	FC/APC (slow axis parallel to the key)		
	Output			
ENVIRONMENTAL				
Operating temperature	0 °C to +70 °C			
Storage temperature	-40 °C to +85 °C			
MAXIMUM RATINGS				
Maximum RF input power (CW mode)	+33 dBm			
DC bias voltage range	-15 V to +15 V			
Optical damage threshold (CW mode)	+20 dBm			

(1) : Consider an extra-loss up to 0.25 dB for each FC/APC optical connector.

(2) : A DC Block may be required at the RF input to avoid DC voltage coming out from Vbias.

Mechanical drawing

