



MIDC-1550-SB

SPECIFICATIONS	Operating Wavelength	1550 ± 20 nm
GENERAL	Pigtailed Insertion Loss	≤ 3.5 dB; 3.0 dB available
	Split Ratio	50 ± 3%
	Half-wave Phase Modulation Voltage, V π	4 V
	Polarization Extinction Ratio	≥ 60 dB
	PM Pigtail Crosstalk	≤ -20 dB
	Intensity Modulation	≤ 0. 1%
	Electrode Type	Push-pull
	Pigtail Compatibility	80µm Clad
	Operating Temperature	-45 °C to +70 °C

MECHANICAL

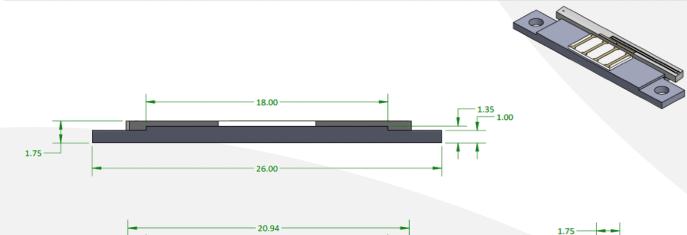
Dimensions	ensions 1.75 mm x 7 mm x 26 mm	
Electrode	Gold Plated	
Substrate Material	LiNbO3 (customizable)	
Crystal Orientation	X-cut, Y-propagation	
Waveguide Process	Proton Exchange	
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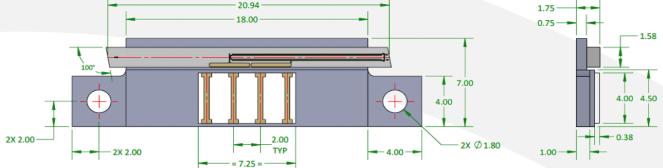
Sample Test Data					
	Input Port	Output Port 1	Output Port 2		
Extinction Ratio -5°C (dB)	31.3	24.3	28		
Extinction Ratio -25°C (dB)	33.1	26.2	30.8		
Extinction Ratio -25°C (dB)	31.0	24.5	27.8		
Coupling Ratio (%)	N/A	50.0	50.0		
$\forall \pi (\forall)$		< 4.5 V			
Insertion Loss	3.7				





MECHANICAL DRAWING







Product specifications and description are subject to change without notice. © 2018 Optilab, LLC. MIOC-1550-SB. Sept 2022 Rev. 1.1