SELEX Sistemi Integrati

LiNbO$_3$ Photonic Foundry

40 Gbps amplitude modulator

Features

- Proton Exchanged Xcut LiNbO3 crystal
- C and L band operation
- Velocity matched travelling wave electrode
- Low drive voltage
- Dual drive electrode for Chirp Free amplitude modulation
- High reliability hermetic package[1]

(1)Qualified according MIL STD 883D

Specifications

Operating Wavelength	1530-1570nm	
Insertion Loss	<4.5dB	
Optical Return Loss	<-50dB	
Optical Extinction Ratio	25dB	
V (1 Khz)	<5.5V	RF electrode
V (1 Khz)	8.6V	DC electrode
Electrical Return Loss	<-10dB	DC to 40 Ghz
EO Bandwidth@-3dB	>35GHz	
Maximum electrical power	+20dBm	
Maximum Optical Power	300mW	
Fiber type	Polarisation Maintaining (input) SM or PM (output)	
Connector Type	SMA 'K' female	

LiNbO3 Photonic Foundry are distributed by:

Crisel Instruments,srl

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Applications

- High speed data communication NZR and ZR :
  - SONET OC-768 Interfaces
  - SDH STM-256 Interfaces
- 40 Gbps transmitter for fiber optic transport networks
- Long Haul and dispersive fiber optic link
- Wide bandwidth test equipment

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