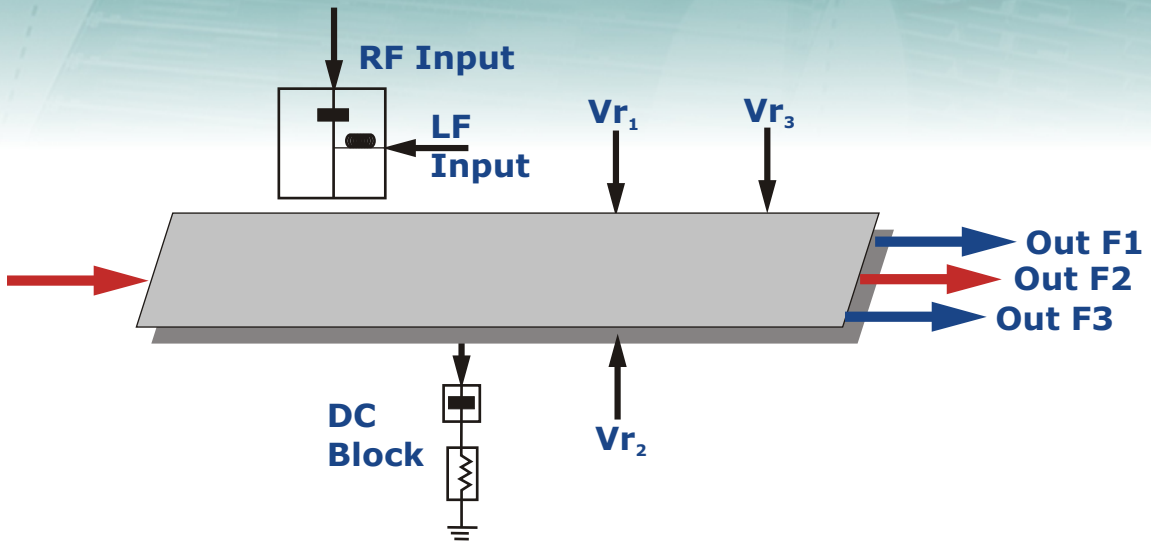
SELEX Sistemi Integrati

$LiNbO_3$ Photonic Foundry

Linearised modulator



Principle of operation

A proper optical circuit configuration cancels the 3rd order IMP for RF signal

Specifications

Wavelength	1550nm	
Insertion Loss	7dB	Out F3 with all modulators at maximum
Bandwidth	>20GHz	
Extinction Ratio	>20dB	
Vp (1 Khz)	5.5V	RF electrode
Vp (1 Khz)	3.3V	DC electrode
Input impedance	40 Ohm	
SFDR	>72dBc/MHz4/5	In octave band

LiNbO3 Photonic Foundry are distributed by:

Crisel Instruments,srl

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Applications

- High linearity analog link (e.g. for High Dynamic Range OBFN)
- High resolution Photonic A/D Converters

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