## **Small Form Factor 12.5+ Gb/s Modulators**



A very low loss, extended bandwidth intensity modulator for OC-192 data rates and higher using Forward Error Correction (FEC) for high output power ultra-long-reach  $(80+\ km)$  MSA transponder modules

## **Key Specifications (Preliminary)**

Insertion Loss	< 3 dB
3 dB Bandwidth	>12.5 GHz
Modulation Port Vpi (@ 1 GHz)	< 5.0 volts
Vpi PRBS @ 12.55 Gb/s	~5.5 volts
DC Bias Port Vpi	< 10 volts
S11 (0.13 to 12.5 GHz)	<-10 dB
RF Extinction Ratio	> 12 dB
Optical Null Depth (@ DC)	> 20 dB
Optical Return Loss	> 45 dB
Alpha Chirp Factor	$-0.7 \pm 0.1 \text{ (z-cut)}$
Package Dimensions (w/GPO)	2.56" x 0.35" x 0.20" (65 x 8.9 x 5 mm <sup>3</sup> )
RF Connector	GPO/SMP (K available)
Operating Wavelength	1.55 micron (C- and L-Band)
Input Fiber	PM
Output Fiber	SM or PM
Optical Connectors	FC/PC standard (FC/APC & others available)
	Ultra-low insertion loss
	Integrated monitor photodiode
	Integrated attenuator (VOA)
Options	Integrated phase modulator
	Dual complementary outputs
	Custom alpha chirp factors
	1.06 & 1.3 micron operating wavelength

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