

## Product Preview

### APPLICATIONS

- WDM Communications
- Test and Measurement

### FEATURES

- Compact TOSA Package
- 0 dBm Output Power
- C-band Tuning Range
- Up to 13.5 Gbps NRZ
- LC Receptacle
- Integrated Modulator
- Zero or negative chirp

### OVERVIEW

The FPT3515c is a monolithic Indium Phosphide tunable transmitter with chirp control. The tunable transmitter is electronically tuned and can address any wavelength within the C-band. Flexible control of both the output power and shutter functions are realized through the use of Semiconductor Optical Amplifiers (SOAs), enabling VOA functionality and dark tuning between channels. The transmitter can be used in zero or negative chirp at NRZ data rates up to 13.5 Gbps. The device is packaged into a compact TOSA-style package, with an internal optical isolator.

### SPECIFICATIONS

<b>Optical Parameters</b>	<b>min</b>	<b>typ</b>	<b>max</b>	<b>unit</b>
Wavelength Range	1532.29		1564.68	nm
Extinction Ratio @ 13.5Gb/s	10			dB
Output Power	0	3		dBm
Side-mode Suppression Ratio	35	40		dB
Relative Intensity Noise		-140	-135	dB/Hz
<b>Electrical Parameters</b>	<b>min</b>	<b>typ</b>	<b>max</b>	<b>unit</b>
Modulation Rate			13.5	Gb/s
Input Impedance		50		Ohm
Differential drive voltage			2.5	V
Rise/Fall Time (20-80%)			45	ps
Operating Temperature	-5		75	°C

