

## 25Gb/s Linear PIN LC ROSA

WPPT250FNLCNJ1

### Features

- LC receptacle with single mode fiber stub
- FPC electrical interface
- XMD-MSA compliant ROSA

### Applications

- PAM4 optical systems

### Absolute Maximum Ratings

Parameters	Symbol	Rating	Unit
TIA Supply Voltage	$V_{CC}$	-0.5 to 4.5	V
VPD Supply Voltage	$V_{PD}$	-0.5 to 4.5	V
Gain Control Voltage	GC	0 to $V_{CC}$	V
Maximum Optical Input Power	$P_{max}$	5	dBm
Operating Temperature Range	$T_C$	-5 to +85	°C
Storage Temperature Range	$T_{STG}$	-40 to +85	°C
Soldering Temperature	$T_{SO}$	350	°C

### Performance Specifications

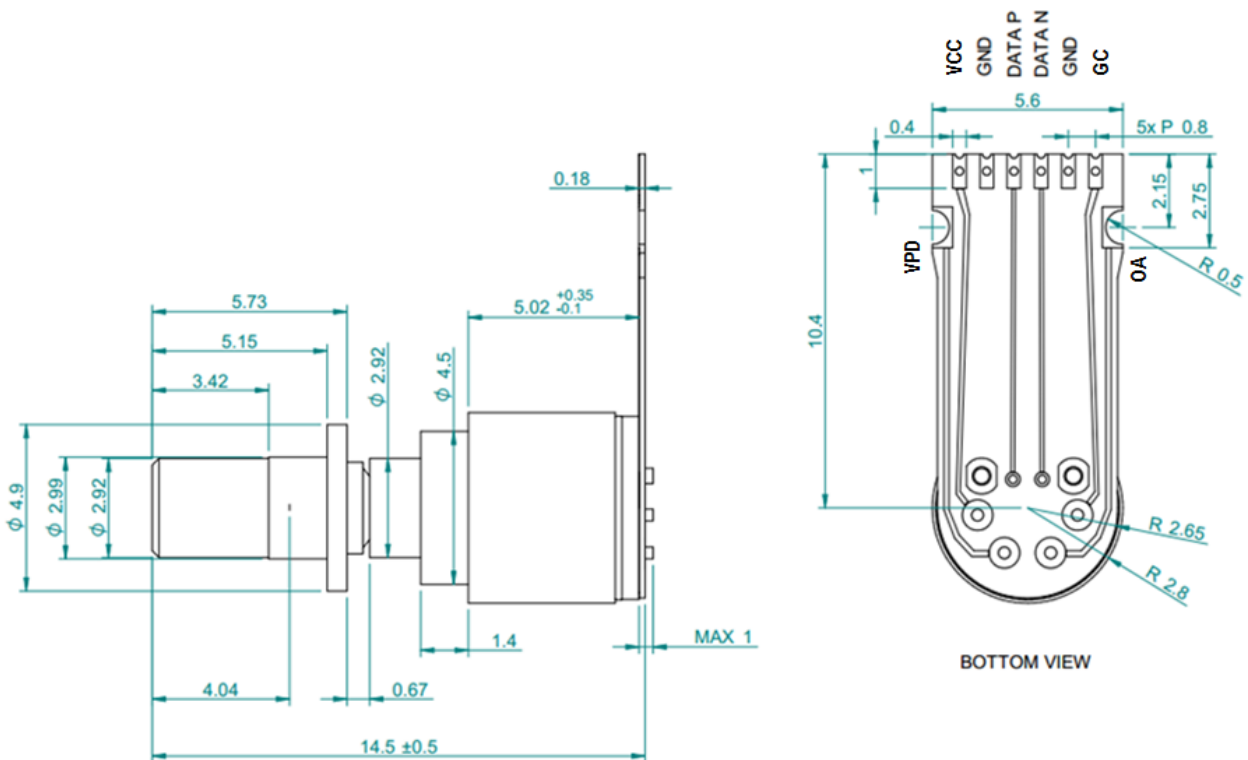
Parameters	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Supply Voltage	$V_{CC}$	-	3.1	3.3	3.465	V
PD Supply Voltage	$V_{PD}$	-			3.465	V
Power Consumption	$P_C$	$V_{CC}=3.3V$		0.28		W
Wavelength	$\lambda$	-	1260		1640	nm
OE Bandwidth	BW	$P_{IN}=100\mu W$ , 1310nm, $V_{PD}/V_{CC}=3.3V$ , GC=0V		25		GHz
NRZ Sensitivity	$P_S$	25.781Gb/s, PRBS2 <sup>31</sup> -1,		-13.5		dBm
NRZ Overload	$P_{MAX}$	BER=10 <sup>-12</sup> , ER=4.2dB	3			dBm
RSSI Monitor Current	$RSSI_{MON}$	$P_{IN}=100\mu W$ , 1310nm, $V_{PD}/V_{CC}=3.3V$		90		μA
Total Harmonic Distortion	THD	1GHz to 13GHz, $P_{IN}<1.5dBm$		2	3	%
Low Frequency Cut-Off	$f_{LOW}$	-			500	kHz
TIA Gain Control Voltage	GC	Analog control	0		$V_{CC}$	V
TIA Output Adjust Voltage	OA	Analog control	0		$V_{CC}$	V

**Precaution to use**

The WPPTR250FNLCNJ1 is sensitive to electrostatic discharge (ESD) and should be handled with appropriate caution. Please use standard ESD protective equipment when handling this product.

**Mechanical Specifications**

Dimensions (unit: mm)



**Ordering information**

WPPTR250FNLCNJ

**Contact**

Vitex LLC  
 210 Sylvan Ave, Suite 25  
 Englewood Cliffs, NJ 07632  
 201-296-0145 / [info@vitextech.com](mailto:info@vitextech.com) / [www.vitextech.com](http://www.vitextech.com)

Specifications described here are subject to change without notice