T-149-622A-G3-B-01



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC
- Differential ended output
- 3.3 supply voltage
- -40 to 85°C operating temperature
- Integrated 4-pin TO-46 with ball lens cap package
- 622Mpbs SONET/SDH/ATM receivers
- Bi-Directional optical module/transceiver
- RoHS compliance available

Absolute Maximum Rating (Tc=25°C)				
Parameter	Symbol	Min	Max	Unit
Supply Voltage	V _{cc}	-	6.5	V
Operating Temperature	T _{opr}	-40	+85	°C
Storage Temperature	T _{stg}	-40	+85	°C

DC Electrical Characteristics(Tc=25°C)									
Parameter	Symbol	Min	Typical	Max	Unit				
Power Supply	V _{cc}	3.0	3.3	3.6	V				
Differential Output offset Voltage	V _d	-	+/-5	-	V				
Supply Current (Vcc=3.3V)	I _{cc}	-	21	30	mA				

Operating at $V_{CC} = 3.3V$, $T_{c} = 25^{\circ}C$, $9/125\mu m$ SM fiber AC/Optical and Electrical Characteristics(Tc=25°C)

 $R_{\rm out}$

48

Parameter	Symbol	Min	Typical	Max	Unit	Test Condition
Detection Range	-	1475	1490	1505	nm	-
Wavelength Isolation @ 1310nm+/- 50nm&1550nm+/-10nm	-	26	-	-	dB	-
Gain @ 10 Mbps Differential	G	6	7	-	V/mW	Measure differentially AC coupled, $RL{=}50\Omega$
Bandwidth (to -3dB point)	BW	404	470	-	MHz	-
Saturation Power	P _{sat}	-3	0	-	dBm	BER <10 ⁻¹⁰ @ 622Mbps, PRBS 2^{23} -1 Er = 10 dB
Sensitivity	Sens	-	-33	-31	dBm	BER <10 ⁻¹⁰ @ 622Mbps, PRBS 2 ²³ -1

50

Ω

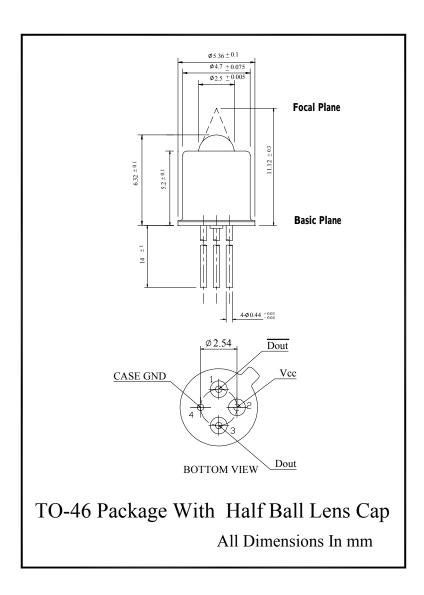
Output Resistance

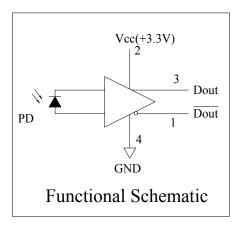
LUMINENTOIC.COM

Er = 10 dB

T-149-622A-G3-B-01

Package Diagram

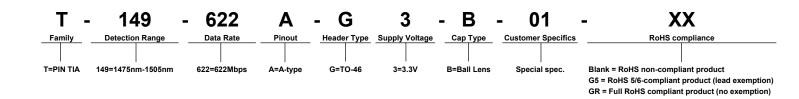




T-149-622A-G3-B-01

Ordering Information

Available Options: T-149-622A-G3-B-01 T-149-622A-G3-B-01-G5 T-149-622A-G3-B-01-GR



Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notice

IMPORTANT NOTICE!

All information contained in this document is subject to change without notice, at LuminentOIC's sole and absolute discretion. LuminentOIC warrants performance of its products to current specifications only in accordance with the company's standard one-year warranty; however, specifications designated as "preliminary" are given to describe components only, and LuminentOIC expressly disclaims any and all warranties for said products, including express, implied, and statutory warranties, warranties of merchantability, fitness for a particular purpose, and non-infringement of proprietary rights. Please refer to the company's Terms and Conditions of Sale for further warranty information.

LuminentOIC assumes no liability for applications assistance, customer product design, software performance, or infringement of patents, services, or intellectual property described herein. No license, either express or implied, is granted under any patent right, copyright, or intellectual property right, and LuminentOIC makes no representations or warranties that the product(s) described herein are free from patent, copyright, or intellectual property rights. Products described in this document are NOT intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. LuminentOIC customers using or selling products for use in such applications do so at their own risk and agree to fully defend and indemnify LuminentOIC for any damages resulting from such use or sale

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED ON AN "AS IS" BASIS. Customer agrees that LuminentOIC is not liable for any actual, consequential, exemplary, or other damages arising directly or indirectly from any use of the information contained in this document. Customer must contact LuminentOIC to obtain the latest version of this publication to verify, before placing any order, that the information contained herein is current.

© LuminentOIC, Inc. 2003 All rights reserved