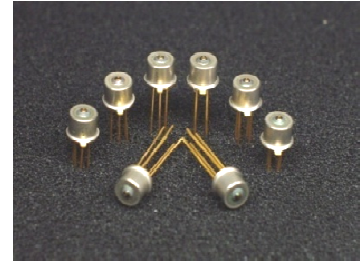


Features

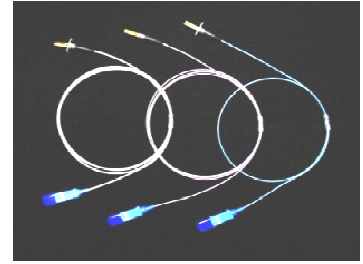
- High sensitivity -31dBm
- Low noise high speed TIA
- 622Mbps (OC-12)
- AGC circuit
- PD monitoring current output
- 5 pin package
- Pigtail, LC ROSA type available



CAN type

Applications

- Optical communications
- Optical LAN
- OE converters



Pigtail type

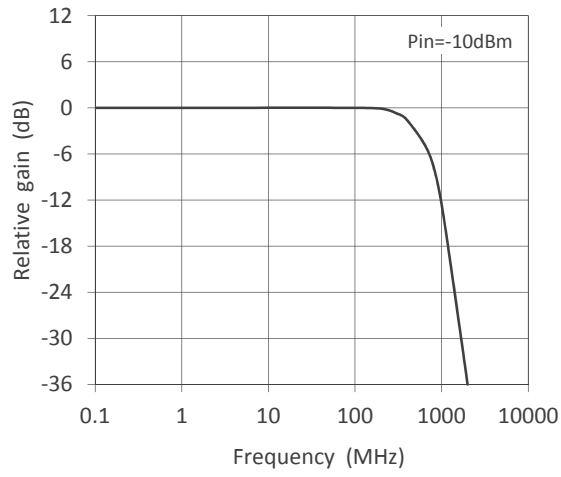
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Supply voltage	V_{CC}	4.5	V	
Operating temperature	T_{opr}	-40 to +85	°C	
Storage temperature	T_{stg}	-40 to +85	°C	

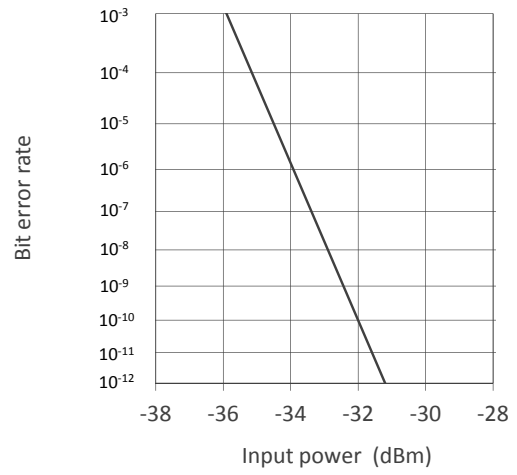
Electrical and Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating voltage	V_{op}	3.0	3.3	3.6	V	
Supply current	I_{CC}	-	30	45	mA	$V_{op}=3.3\text{V}$
Bit rate	BR	-	622	-	Mbps	
Bandwidth @-3dB	BW	415	-	-	MHz	$R_L=50\Omega$, $P_i=-10\text{dBm}$
Optical sensitivity	P_{min}	-	-31	-	dBm	Single ended, $\text{BER}=10^{-10}$
Output impedance	Z_o	-	50	-	Ω	Single ended
Differential output voltage	V_o	-	600	-	mVpp	Differential, ($R_L>500\Omega$, Single)
Photo-electric conversion efficiency	η_{PE}	8.0	13.0	-	kV/W	(Single ended, $R_L>500\Omega$)

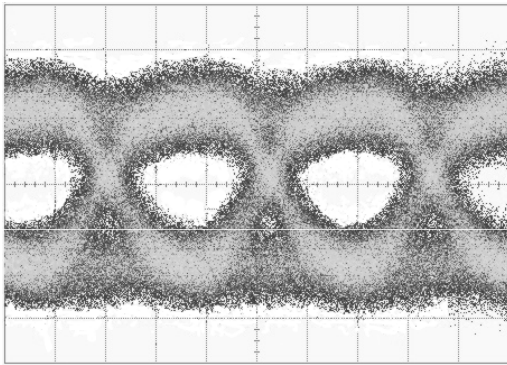
Frequency Response



Bit Error Rate



Eye Diagram



Hor. 500ps/div, Ver. 2mV/div, Pi=-31dBm, BR=622Mbps

- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



KYOSEMI CORPORATION

<http://www.kyosemi.co.jp/>

Headquarters : 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Tokyo Sales Office: 24th Sky Bldg.2F, 1-34-3 Shinjuku Shinjuku-ku, Tokyo 160-0022 Japan

TEL: +81-3-5312-5360

Kansai Sales Office: 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Kyosemi Opto America Corp: 4655 Old Ironsides Suite 230 Santa Clara, California 95054 USA

TEL: +1-408-492-9361

Eniwa Operation: 385-31 Toiso Eniwa-shi, Hokkaido 061-1405 Japan

TEL: +81-123-34-3111

Kamisunagawa Operation: 70-1 Kamisunagawa Kamisunagawa-cho Sorachi-gun, Hokkaido 073-0200 Japan

TEL: +81-125-62-3611