

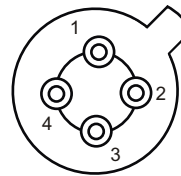
PIN-TIA Receiver 155 Gbps with AGC

Features of Diode

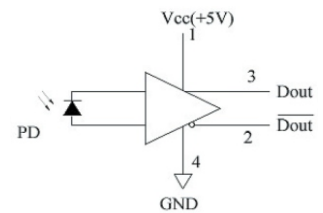
- InGaAs/InP PIN Photodiode with Transimpedance Amplifier
- High sensitivity with AGC
- Differential ended output
- Single 3.3 V operation
- -40 to 85 °C operating temperature
- Integrated 4-pin TO-46 ball lens cap package
- SDH/SONET/ATM application
- Fast Ethernet application
- ESCON application



PINOUT



Bottom view



Functional Schematic

Absolute maximum ratings

Parameter	Min.	Max.
Storage temperature	-40 °C	85 °C
Operating temperature	-40 °C	85 °C
Supply voltage		4.5 V

Number	Function
1	V _{CC}
2	D _{out}
3	D _{out}
4	GND

Electrical-optical characteristics

Parameter Laser Diode	Test Condition	Min.	Typ.	Max.
Power supply	T _c = 25 °C	3.0 V	3.3 V	3.6 V
Differential output voltage	T _c = 25 °C			1 V
Supply current	T _c = 25 °C			35 mA
Detection range	T _c = 25 °C	1100 nm	1310 nm	1650 nm
Gain @ 10 Mbps Differential	= 1310 nm, T _c = 25 °C	52 V/mW		70 V/mW
Bandwidth	T _c = 25 °C	120 MHz	140 MHz	
Saturation power	= 1310 nm, T _c = 25 °C	-3 dBm	0 dBm	
Sensitivity	BER= 10 ⁻¹⁰ @ 155 Mbps		-38 dBm	-35 dBm
Output resistance	T _c = 25 °C		50	65
Possible receptacle (type A)	ST1, ST2, ST4, P2, LC, SC, FC1, FC2, Fiberdip, SMA1, SMA2			

Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)

Note: The above product specifications are subject to change without notice.