

Electronics | OptoElectronics

Data sheet 65

RPOpto-Clamp 650nm Transmitter

LED 650nm 156MBit/s

1 General

This active component is especially suited for applications with standard 1mm plastic optical fiber. Pre-mounted with a fast 650nm RCLED capable of high optical output power, the component is a good solution in optical data transmission systems with plastic optical fibers.

2 Application _____

Due to the high data rate of 156MBit/s, the good optical and mechanical features this transmitter may be used in many applications:

- Optical networks
- • Industrial electronic
- Power electronic

3 Ordering information ____

Specification

650 nm LED 650 nm LED (with front panel fill) 905SE650KR003 905SE650KR004

Part number

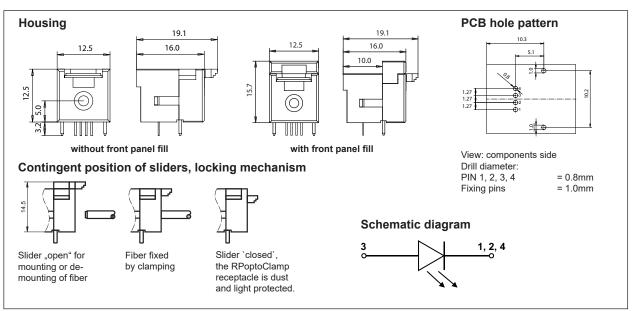


Pic. 1 RPOptoClamp

5 Features

- 650nm LED
- 156MBit/s
- plugless fiber optic cable assembly
- Suitable for all plastic optical fiber cable with an outside diameter of 2.2mm and a fiber diameter of 1mm
- Plastic housing
- Pick-and-place support
- wave soldering compatible

4 Drawings



Pic. 2 Drawings



LED 650nm 156MBit/s

6 Maximum ratings _____

Stresses beyond those listed under «Maximum Ratings» may cause permanent damage to the device. Maximum ratings represent stress limits of the device. Operation of the electronic component at these values is not recommended over an extended period as this may adversely affect the reliability of the component.

Parameter	Symbol	Value	Unit
Operating temperature	T _{OPR}	0 to +60	°C
Storage temperature	Τ _{stg}	-40 to +85	°C
Soldering temperature 1.5 mm distance to housing, $t \le 5s$	T _{SOL}	230	°C
Forward current	I _F	50	mA
Power dissipation	P _{max}	130	mW

7 Technical data

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20mA	-	1.9	2.4	V
Emission wavelength	λр	I _F =20mA	640	650	665	nm
Spectral half width	Δλ	I _F =20mA	-	-	25	nm
Fiber coupled optical power	P _o	1mm POF, 1m	-4.5	-2	0.5	dBm
Cut-off frequency	f _c	I _F =20mA	60	70	-	MHz

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