

1.25G InGaAs PIN-TIA ROSA

Features

Wavelength from 1100nm to 1600nm

3.3V/5V Suply Voltage

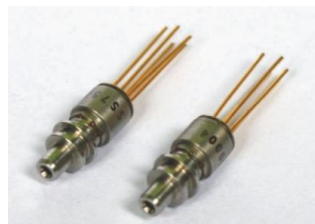
High Sensitivity

Low Noise & Low Dark Current

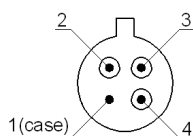
Applications

SDH,PDH,SONET Application

Digital Communication

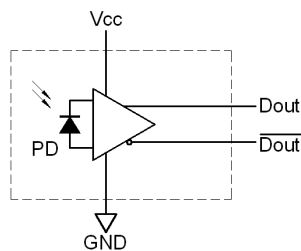


PIN assignment



Pin	A type	B type
1	GND	GND
2	Vcc	Out(+)
3	Out(-)	Vcc
4	Out(+)	Out(-)

Functional schematic



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



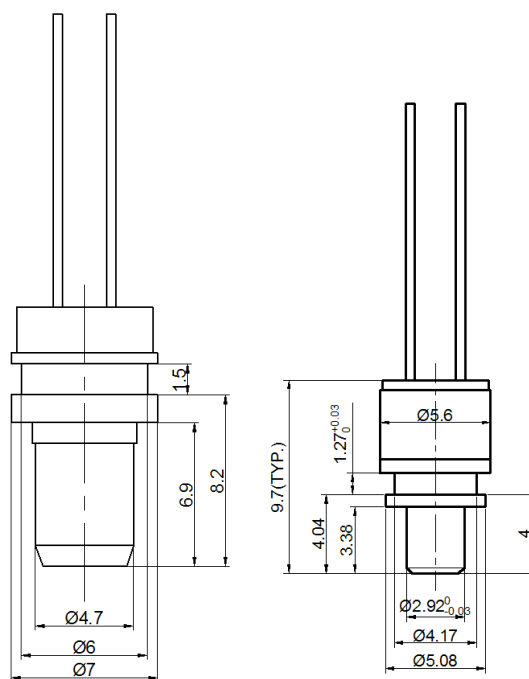
Absolute maximum ratings

Parameter	Symbol	Value	Unit
Storage temperature	Tst	-40~+85	°C
Operating temperature	Top	-40~+85	°C
Reverse voltage	V _R	30	V
Soldering temperature/time	-	260/10	°C/ s

Optical & electrical characteristics(T=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Suplly Voltage	Vcc	4.5	5.0	5.5	V	-
		3.0	3.3	3.6		
Suplly Current	Icc	-	26	50	mA	No load
Bandwidth	BW	750	-	1100	MHz	R=50Ω
Gain	G	-	-	0.2	V/W	1310nm
Sensitivity	S	-23	-	-	dBm	BER=10 ⁻¹⁰
Saturation power	P _{sat}	-3	0	-	dBm	25°C

Dimensions Diagram



(a)ROSA

(b)LC-ROSA

Order information

SRO	X	X	X	X
	Voltage	Pin out	Data rate	Package
	1,3,3v	1,A type	1,155M	1, (a)
	2,5v	2,B type	2,622M	2, (b)
	3,3.3/5v		3,1.25G	S,spec
			4,2.5G	

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