



# PTCM961-1 PIN Transimpedance Amplifier

Nanovation's PTCM961-1 PIN Transimpedance Amplifier features an InGaAs PIN Photodiode and Preamplifier, high sensitivity as well as an integrated 4-PIN coaxial package. This transmitter is targeted toward applications for coaxing receiver modules.

## Features

- InGaAs PIN Photodiode and Preamplifier
- Typical -32dBm sensitivity, -3dBm saturation at 622Mb/s (BER 10-10)
- Integrated 4-pin coaxial package
- Differential output
- Single +5V operation
- Connector receptacle and fiber pigtailed versions

## Applications

- Coaxing receiver modules

## Specifications (Vcc=5.0V, TA=25\_)

Parameter	Min	Typ	Max	Units
Wavelength range	1100		1650	nm
Bandwidth (-3dB point)	115			MHz
Sensitivity (BER=10-10)		-39	-38	dBm
Saturation	-3			dBm
Transimpedance -single ended	100		100	k $\Omega$
-differential	200		200	k $\Omega$
Differential output voltage (Pmax)			1.2	V
Output impedance		50	65	$\Omega$
Recommended output loading	500	3		k $\Omega$
Supply voltage	4.5	5.0	5.5	V
Supply current (no loads)			35	mA
Operating ambient temperature	-20		70	°C
Storage temperature	-40		85	°C

## Precautions for Use

- ESD Protection is imperative.
- Shorten the length of the modules' leads as much as possible to reduce excess inductance.

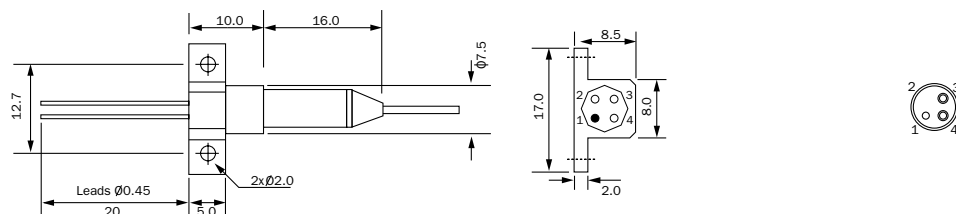


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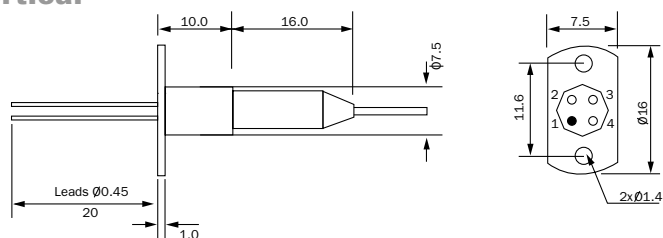
## Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)

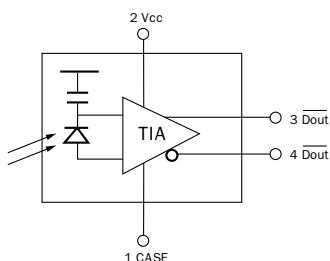
### Horizontal



### Vertical



## Electrical Schematic



**To order or for additional information, please contact us at:**

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