



PTCM960-1 PIN Transimpedance Amplifier

Nanovation's PTCM960-1 PIN Transimpedance Amplifier features an InGaAs PIN Photodiode and Pre-Amplifier, high sensitivity and an integrated 4-PIN coaxial package. This amplifier 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 module applications

Specifications ($V_{CC}=5.0V$, $T_A=25^{\circ}C$)

Parameter	Min	Typ	Max	Units
Wavelength range	1100		1650	nm
Bandwidth (-3dB point)	450			MHz
Sensitivity (BER= 10^{-10})		-32	-30	dBm
Saturation	-3			dBm
Transimpedance -single ended -differential	100		12	k Ω
	200		24	k Ω
Differential output voltage (Pmax)			1.3	V
Output impedance		50	65	W
Recommended output loading	500	3		kW
Supply voltage	4.5	5.0	5.5	V
Supply current (no loads)			45	mA
Operating ambient	-20		70	
Storage temperature	-40		85	

Precautions for Use

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

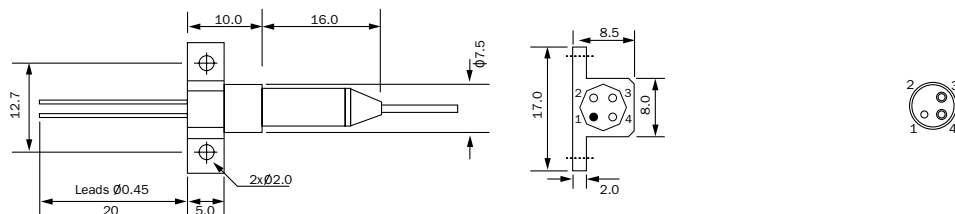


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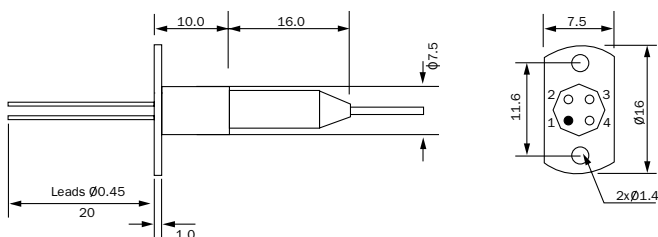
Mechanical Packaging Diagram (mm)

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

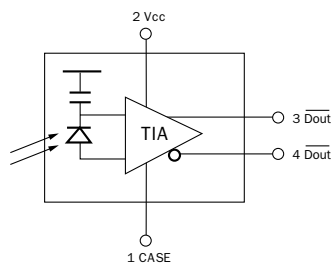
Horizontal



Vertical



Electrical Schematic



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

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