

## ADN3000-06-50A-PT7 Datasheet



DiGi Electronics Part Number ADN3000-06-50A-PT7-DG

Manufacturer Analog Devices Inc.

Manufacturer Product Number ADN3000-06-50A-PT7

Description IC TRANSIMPEDANCE AMP DIE

Detailed Description Transimpedance Amplifier IC Optical Networks Die

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8542.33.0001

## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
ADN3000-06-50A-PT7	Analog Devices Inc.
Series:	Product Status:
	Obsolete
Type:	Applications:
Transimpedance Amplifier	Optical Networks
Mounting Type:	Package / Case:
Surface Mount	Die
Supplier Device Package:	Base Product Number:
Die	ADN3000

## **Environmental & Export classification**

Moisture Sensitivity Level (MSL):	ECCN:
1 (Unlimited)	5A991B3
HTSUS:	



# 6.144 Gbps Transimpedance Amplifier with Integrated Photodiode

ADN3000-06

#### **FEATURES**

Integrated photodiode + TIA Differential responsivity: 5.5 mV/ $\mu$ W 50  $\mu$ m diameter germanium photodiode Input sensitivity: –19.5 dBm @ 6.144 Gbps Wavelength range: 830 nm to 1560 nm

Single 3.3 V supply Power dissipation: 65 mW

Differential output swing: 240 mV p-p On-chip power monitor function Die size: 0.835 mm × 0.675 mm

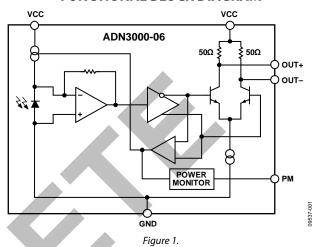
#### **APPLICATIONS**

Optical receivers up to 6.5 Gbps 6G CPRI, OBSAI, and 8G short range and LTE receivers Receiver optical subassemblies (ROSA)

#### **GENERAL DESCRIPTION**

The ADN3000-06 is a complete high speed optical receiver featuring a proprietary large-area germanium PIN photodiode integrated with a transimpedance amplifier (TIA). The integration of the photodiode eliminates bond wires between the diode and TIA that provides guaranteed performance and improved manufacturing reliability. The ADN3000-06 supports data rates of up to 6.5 Gbps for telecommunication and point-to-point LAN applications, and a wide range of operating wavelengths from 830 nm to 1560 nm.

#### **FUNCTIONAL BLOCK DIAGRAM**



The ADN3000-06 also features an optical average power monitoring circuit that generates a voltage output proportional to

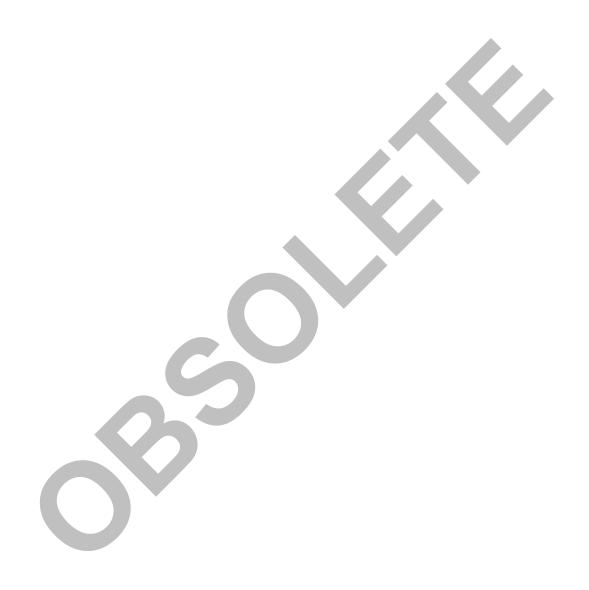
Typical power consumption of ADN3000-06 is 65 mW from a single 3.3 V supply. In saturated output, the signal has a typical differential amplitude of 240 mV p-p.

the average photodiode current.

The ADN3000-06 is available in die form, and it is operational over the extended industrial temperature range of  $-40^{\circ}$ C to  $+85^{\circ}$ C.

ADN3000-06

**NOTES** 





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