

## AD246

### GENERAL DESCRIPTION

The AD246 is a compact, inexpensive clock driver that can be used to obtain the required clock from a single 15 V supply. The circuit shown in Figure 1 (essentially an AD246) can operate at least 32 AD204s at the rated minimum supply voltage of 14.25 V and one additional isolator can be operated for each 40 mV increase in supply voltage up to 15 V.

A supply bypass capacitor is included in the AD246, but if many AD204s are operated from a single AD246, an external bypass connector should be used with a value of at least 1  $\mu\text{F}$  for every five isolators used. Place the capacitor as close as possible to the clock driver.

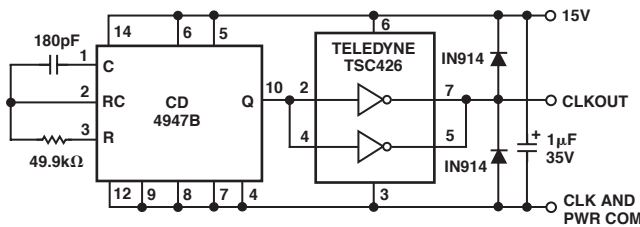


Figure 1. Clock Driver

### AD246 SPECIFICATIONS

(Typical @ 25°C and  $V_S = 15\text{ V}$ , unless otherwise noted.)

Model	AD246JY	AD246JN
<b>OUTPUT*</b>		
Frequency	25 kHz Nominal	25 kHz Nominal
Voltage	15 V p-p Nominal	15 V p-p Nominal
Fan Out	32 max	32 max
<b>POWER SUPPLY REQUIREMENTS</b>		
Input Voltage	15 V $\pm$ 5%	15 V $\pm$ 5%
Supply Current		
Unloaded	35 mA	35 mA
Each AD204	2.2 mA	2.2 mA
Adds 1 mA		
Load on AD204		
+ $V_{\text{ISO}}$ or		
- $V_{\text{ISO}}$ Adds	0.7 mA	0.7 mA

\*The high current drive will not support a short to ground. Specifications are subject to change without notice.

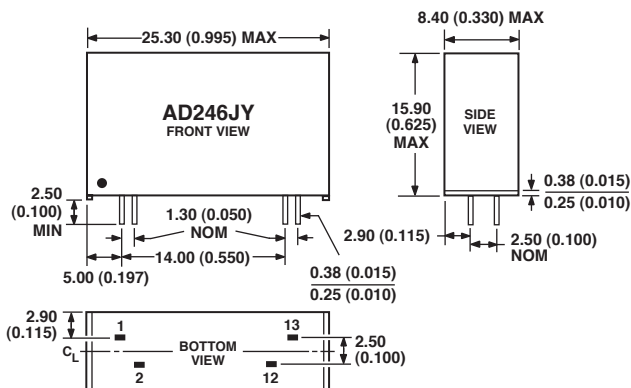
### AD246 Pin Designations

Pin (Y)	Pin (N)	Function
1	12	15 V Power In
2	1	Clock Output
12	14	Common
13	24	Common

### OUTLINE DIMENSIONS

#### AD246JY Package

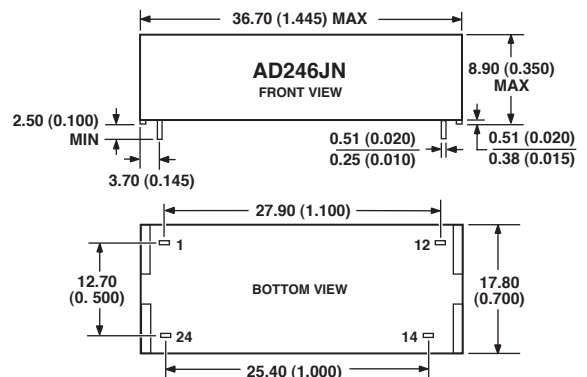
Dimensions shown in inches and (millimeters)



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#### AD246JN Package

Dimensions shown in inches and (millimeters)



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# AD246\* PRODUCT PAGE QUICK LINKS

Last Content Update: 02/23/2017

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## COMPARABLE PARTS

View a parametric search of comparable parts.

## DOCUMENTATION

### Data Sheet

- AD246: Clock Driver Data Sheet

## DESIGN RESOURCES

- AD246 Material Declaration
- PCN-PDN Information
- Quality And Reliability
- Symbols and Footprints

## DISCUSSIONS

View all AD246 EngineerZone Discussions.

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