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## 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.

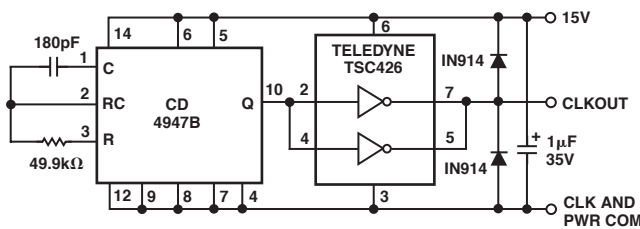


Figure 1. Clock Driver

### 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.

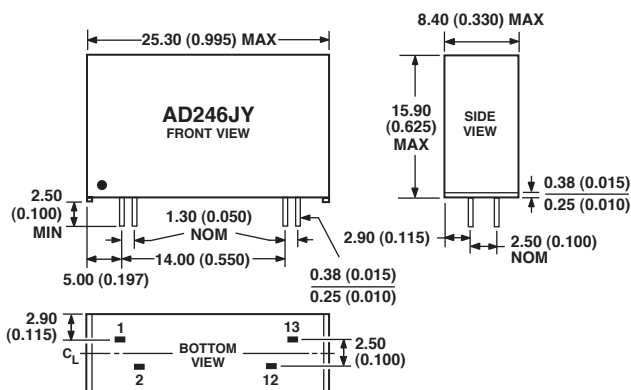
### AD246 Pin Designations

| 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

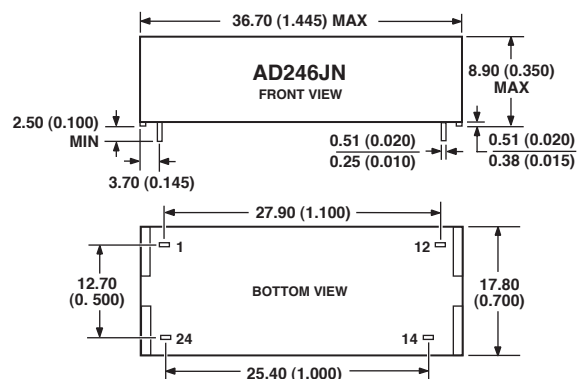
Dimensions shown in inches and (millimeters)



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#### AD246JN Package

Dimensions shown in inches and (millimeters)



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# AD246\* PRODUCT PAGE QUICK LINKS

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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

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