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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 μF for every five isolators used. Place the capacitor as close as possible to the clock driver.

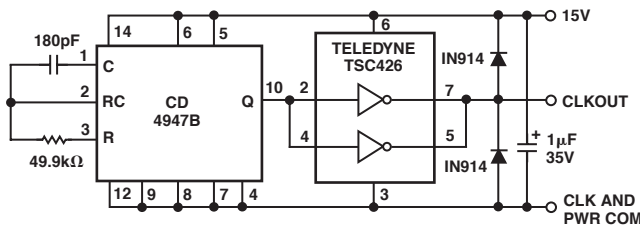


Figure 1. Clock Driver

AD246 SPECIFICATIONS

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

| Model | AD246JY | AD246JN |
|----------------------------------|------------------|------------------|
| OUTPUT* | | |
| Frequency | 25 kHz Nominal | 25 kHz Nominal |
| Voltage | 15 V p-p Nominal | 15 V p-p Nominal |
| Fan Out | 32 max | 32 max |
| POWER SUPPLY REQUIREMENTS | | |
| 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_{ISO} or | | |
| - V_{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.

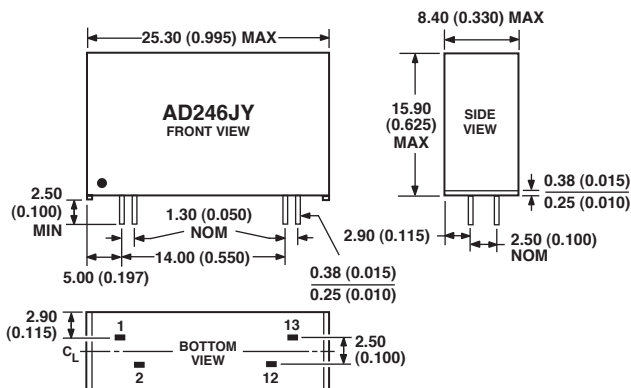
AD246 Pin Designations

| 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

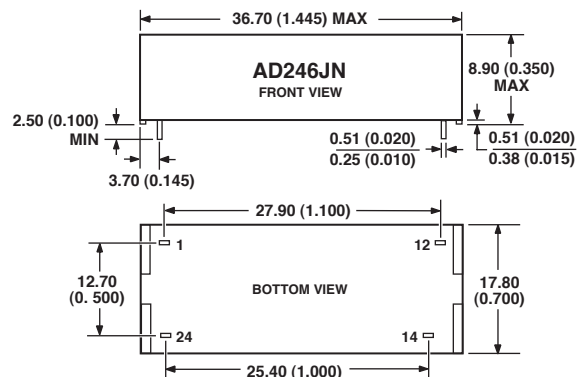
Dimensions shown in inches and (millimeters)



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AD246JN Package

Dimensions shown in inches and (millimeters)



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REV. 0

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AD246* PRODUCT PAGE QUICK LINKS

Last Content Update: 02/23/2017

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.

SAMPLE AND BUY

Visit the product page to see pricing options.

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