

# **Clock Driver**

# 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  $\mu F$  for every five isolators used. Place the capacitor as close as possible to the clock driver.

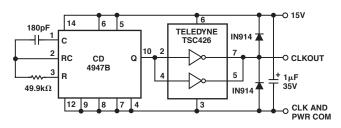


Figure 1. Clock Driver

## AD246 SPECIFICATIONS

(Typical @  $25^{\circ}$ C and V<sub>8</sub> = 15 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 <sub>ISO</sub> or		
-V <sub>ISO</sub> Adds	0.7 mA	0.7 mA

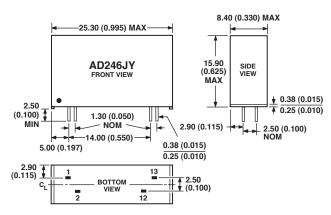
\*The high current drive will not support a short to ground. Specifications are subject to change without notice.

#### **AD246 Pin Designations**

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

#### **OUTLINE DIMENSIONS**

AD246JY Package Dimensions shown in inches and (millimeters)



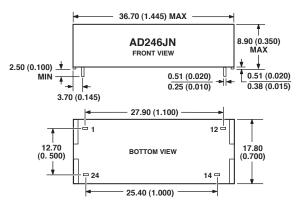
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### REV. 0

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AD246JN Package

Dimensions shown in inches and (millimeters)



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