

CD4016BM/CD4016BC Quad Bilateral Switch

General Description

The CD4016BM/CD4016BC is a quad bilateral switch intended for the transmission or multiplexing of analog or digital signals. It is pin-for-pin compatible with CD4066BM/CD4066BC.

- Extremely high control input impedance $10^{12}\Omega$ (typ.)
- Frequency response, switch "ON" 40 MHz (typ.)

Features

- Wide supply voltage range 3V to 15V
- Wide range of digital and analog switching ±7.5 V_{PEAK}
 "ON" resistance for 15V operation 400Ω (typ.)
- Matched "ON" resistance over 15V
- signal input

 High degree of linearity

 $\Delta R_{ON} = 10\Omega$ (typ.) 0.4% distortion (typ.)

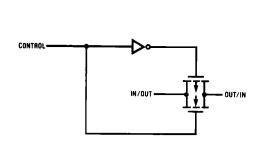
@ $f_{IS} = 1 \text{ kHz}, V_{IS} = 5 V_{p-p},$

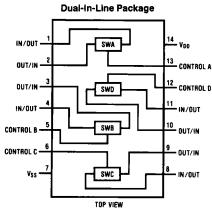
- - @ $V_{DD} V_{SS} = 10V$ $T_A = 25^{\circ}C$

Applications

- Analog signal switching/multiplexing
 - · Signal gating
 - Squeich control
 - Chopper
 - Modulator/Demodulator
 - Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

Schematic and Connection Diagrams





TL/F/5661-1

Order Number CD4016B