

Description

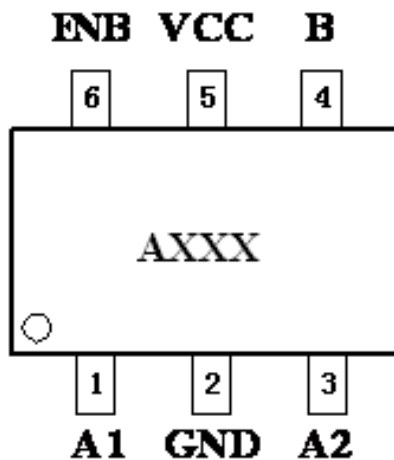
The AS4681 is a Single Wide-Bandwidth, fast single-pole double-throw (SPDT) CMOS switch featuring an On-Resistance of 2.7 ohm at $V_{CC}=5.0V$ and wide power supply range from 1.8V to 5.5V. It can be used as an analog switch or as a low-delay bus switch. The 300MHz high bandwidth performance supports the high frequency application.

Break-before-make function for both parts eliminates signal disruption during switching from preventing both switches being enabled simultaneously.

Applications

- Wireless Handsets
- Portable Electronic Devices : PDAs,MP3 Players
- Relay Replacement
- Audio & Video Signal Routing
- PCMCIA Cards
- Computer Peripherals
- Modems

Pin Description



Features

- Wide Power Supply Range: 1.8V to 5.5V
- High Bandwidth: 300MHz
- High Off-Isolation:
 - 84dB at 1MHz
 - 51dB at 10MHz
- On-Resistance: 2.7 Ω (typ) at 5.0V
- Fast Switching Time
 - $t_{on} = 12.0ns$; $t_{off} = 5.0ns$
- TTL/CMOS Compatible
- Break-Before-Make Switching
- Rail-to-Rail Signal Range
- Operation Temperature Range: -40°C to 85°C
- Lead (Pb) Free SOT363-6 Package

Order Information

Order Number	Package	Remark
AS4681C6/TR-LF	SOT363-6	Pb-Free

Pin Configuration

PinName	Type	Description
VCC	PWR	Power Supply
GND	Ground	Ground
B	Input/Output	Data Port
A1	Input/Output	Data Port
A2	Input/Output	Data Port
ENB	Input	Logic Control Signal

Function Table

ENB	Function
1	A1 Connected to B
0	A2 Connected to B