# DIO1717

## 2.8Ω, 300MHz Dual-SPDT Analog Switch with Negative Swing Audio Capability
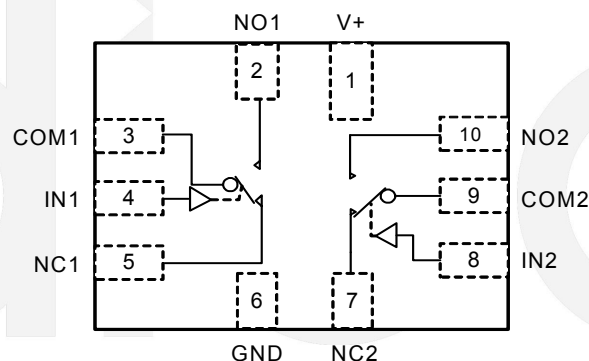
## Features

- Voltage Operation: +2.5V to +5.0V
- -2.0V to V+ Signal Passing Ability
- On-Resistance: 2.8Ω (TYP) at +4.5V
- High Bandwidth: 300MHz
- Fast Switching Times: $t_{ON}$ 1.8µs
  $t_{OFF}$ 350ns
- High Off-Isolation: -49dB at 10MHz
- Low Crosstalk: -52dB at 10MHz
- Negative signal handling: the lowest -2.0V
- negative signal pass
- TTL/CMOS Compatible
- Break-Before-Make Switching
- Extended Industrial Temperature Range:

  -40℃ to +85℃

## Applications

- Cell Phone, and Digital Camera
- PDA , and Notebook
- LCD Monitor
- TV, and Set-Top Box

## Block Diagram

## Descriptions

The DIO1717 is a dual, bidirectional, single-pole/double-throw (SPDT) CMOS analog switch designed to operate from a single +2.5V to +5.0V supply. It features high-bandwidth (300MHz) and low on-resistance (2.8Ω TYP), the lowest -2.0V negative signal can pass switch.

DIO1717 features guaranteed on-resistance matching (0.05Ω TYP) between switches. This ensures excellent linearity and low distortion when switching audio signals.
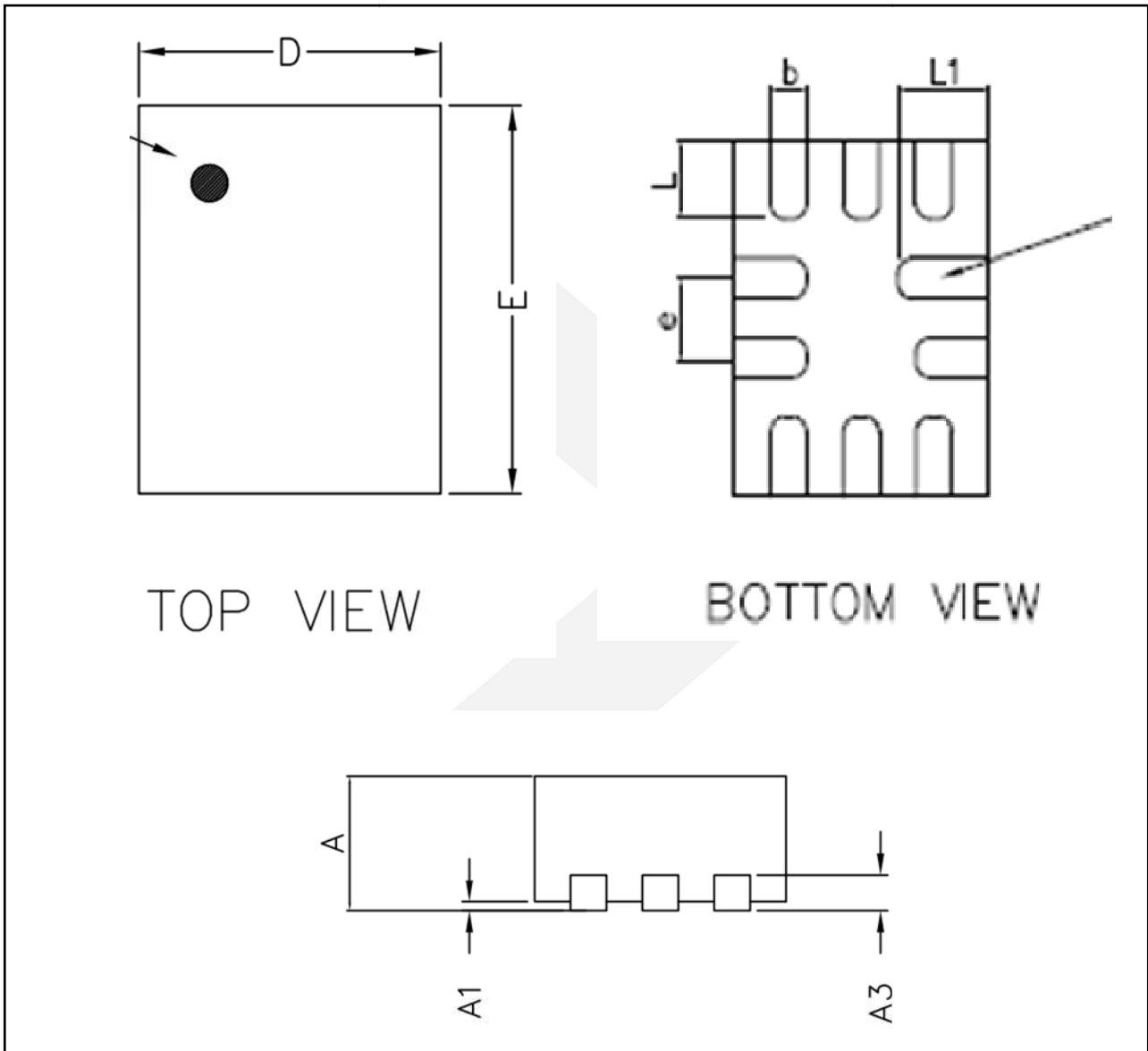
The DIO1717 is a committed dual single-pole/double-throw (SPDT) that consist of two normally open (NO) and two normally close (NC) switches. This configuration can be used as a dual 2-to-1 multiplexer.

DIO1717 is available in DQFN-10 package.



## Ordering Information

| Order Part Number | Top Marking | | $T_A$ | | Package |
|---|---|---|---|---|---|
| DIO1717LP10 | YW(X)Z | Green | -40 to +85°C | DQFN-10 | Tape & Reel, 3000 |

# Physical Dimensions: DQFN-10



TOP VIEW

BOTTOM VIEW

**2.8Ω, 300MHz Dual-SPDT Analog Switch with Negative Swing Audio Capability**

| COMMON DIMENSIONS(MM) | | | |
|---|---|---|---|
| PKG. | UT:ULTRA THIN | | |
| REF | MIN | NOM | MAX |
| A | 0.50 | 0.55 | 0.60 |
| A1 | 0.00 | -- | 0.05 |
| A3 | 0.15REF. | | |
| D | 1.35 | 1.40 | 1.45 |
| E | 1.75 | 1.80 | 1.85 |
| b | 0.15 | 0.20 | 0.25 |
| L | 0.30 | 0.40 | 0.50 |
| L1 | 0.40 | 0.50 | 0.60 |
| e | 0.40BSC | | |

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## CONTACT US

**D**ioo is a professional design and sales corporation for high-quality and performance analog semiconductors. The company focuses on industry markets, such as, cell phone, handheld products, laptop, and medical equipments and so on. Dioo's product families include analog signal processing and amplifying, LED drivers and charger IC. Go to http://www.dioo.com for a complete list of Dioo product families.

For additional product information, or full datasheet, please contact with our Sales Department or Representatives.

单击下面可查看定价，库存，交付和生命周期等信息

>>Dioo(帝奥微)