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#### **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<sub>ON</sub> 1.8μs

toff 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°C to +85°C

## **Applications**

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

## **Descriptions**

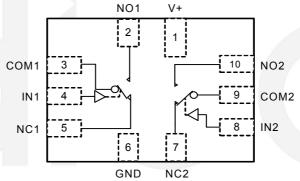
The DIO1717 is a dual, bidirectional, single-pole/double-throw (SPDT) CMOS analog switch designed to operate from a single +2.5V to +5.0V supply. It features high-bandwidth (300MHz) and low on-resistance (2.8 $\Omega$  TYP), the lowest -2.0V negative signal can pass switch.

DIO1717 features guaranteed on-resistance matching (0.05 $\Omega$  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.

## **Block Diagram**

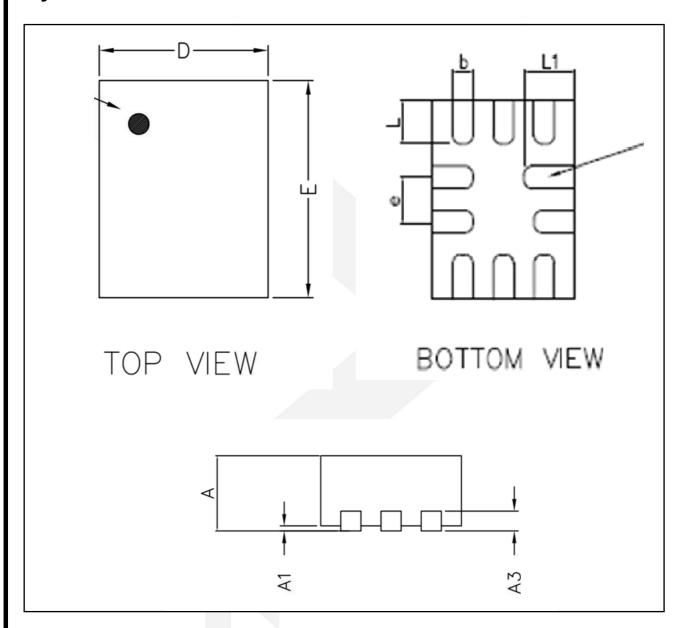


#### **Ordering Information**

Order Part Number	Top Marking		T <sub>A</sub>	Package	
DIO1717LP10	YW(X)Z	Green	-40 to +85°C	DQFN-10	Tape & Reel, 3000



# **Physical Dimensions: DQFN-10**



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			
е	0.40BSC					



## **DIO1717**

#### **CONTACT US**

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

