

DIO2581

One-Channel, 11MHz, 6th-Order Standard Definition Video Filter

Features

- One-ch 6th-order 11MHz SD filters
- 6dB Output Driver Gain and Drive Dual Video Load
- Transparent Input Clamping
- AC or DC Coupled Inputs
- AC or DC Coupled Outputs
- Operates from 3.135 to 5.5V Single Power Supply
- Low Power (8mA/Channel)
- RoHS or Green
 SOT-23-6 Package
- 8kV ESD protection

Applications

- DVD Players
- Video Amplifiers
- Cable set-top boxes
- Personal Video Recorders
- Communications Devices
- Video on Demand

Block Diagram



Ordering Information

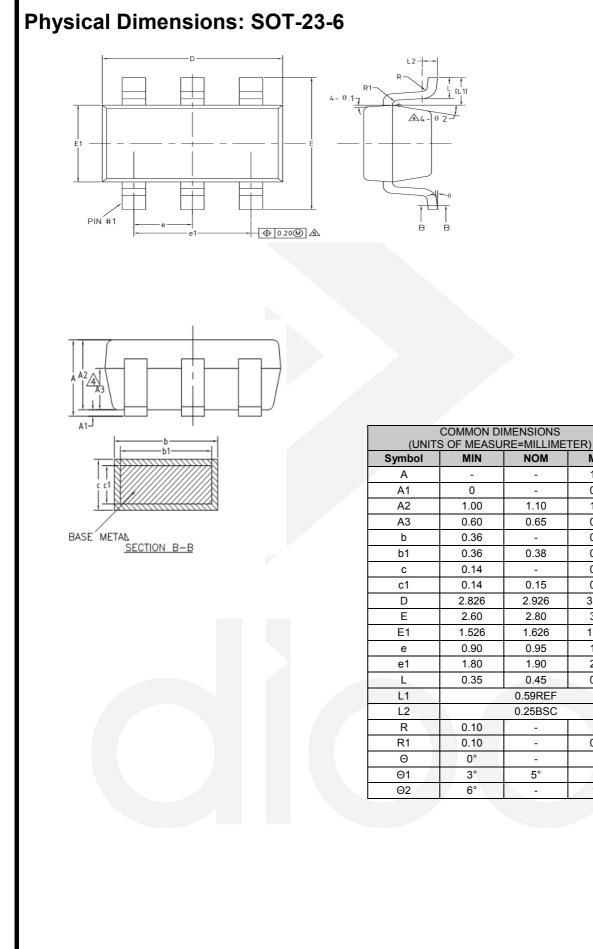
Order Part Number	Top Marking		T _A	Package	
DIO2581ST6	YW(X)Z	RoHS or Green	-40 to +85°C	SOT-23-6	Tape & Reel, 3000

Descriptions

DIO2581 is a low voltage, one channel video amplifier with integrated reconstruction filter and input clamps. DIO2581 provides improved image quality compared with passive LC filters and discrete drivers solution, especially suited for standard definition video signals, such as television and set-top box applications.

DIO2581 can be directly driven by a DC-coupled DAC output or an AC-coupled signal. Internal diode-like clamps and bias circuitry may be used if AC-coupled inputs are required. The output in DIO2581 can also drive AC or DC coupled single (150 Ω) or dual (75 Ω) loads. The DC coupling capacitors can be removed.

DIO2581



MAX

1.25

0.15

1.20

0.70

0.50

0.45

0.20

0.16

3.026

3.00

1.726

1.00

2.00

0.60

-

0.25

8°

7°

14°