



Limited Datasheet

For full content datasheet, please go to www.dioo.com/support/doc.html
Email datasheet.requary@dioo.com

DIO2764

4-Channel SDTV Video Amplifier with 6th Order Filters and 6dB Gain

Features

- 4-SDTV Video Amplifiers for CVBS, S-Video: Y'P'BP'R 480i/576i, Y'U'V', or G'B'R' (R'G'B')
- Integrated Low-Pass Filters:
6th Order 9 MHz (-3dB)
-1dB Passband Bandwidth at 8.0MHz
56dB Attenuation at 27MHz
- 200MHz (-3dB) Filter Bypass
- 6dB Gain
- DC-Coupled with 300mV Output Shift
- AC-Coupled with Sync-Tip Clamp
- AC-Coupled with Biasing Allowed
- Operates from 3.135V to 5.25V
- Rail-to-rail output
- RoHS or Green TSSOP-14 Package
- 8kV ESD protection

Applications

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

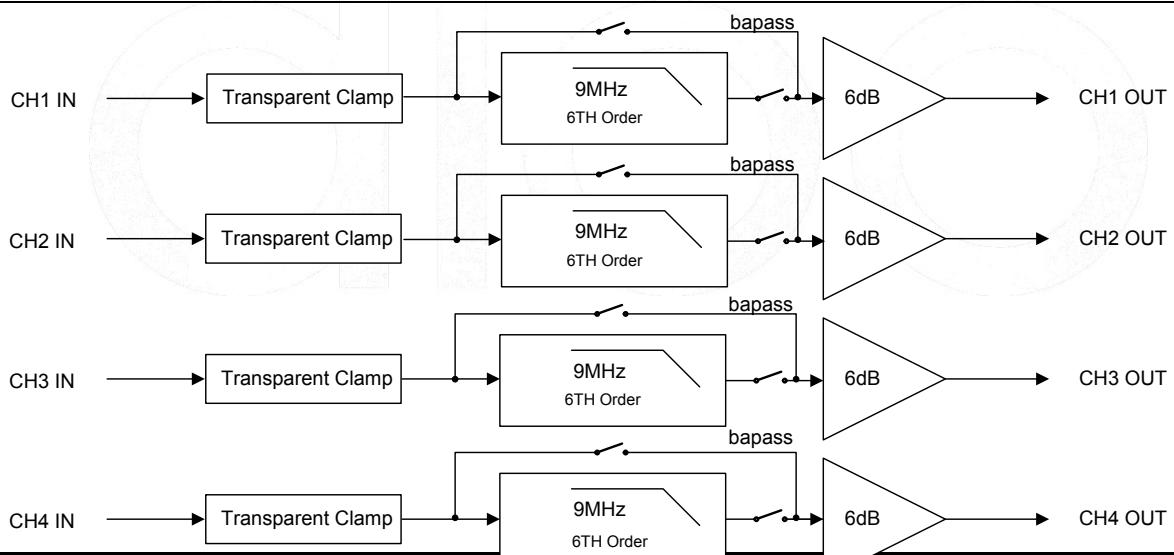
Descriptions

The DIO2764 is a 4-Channel SDTV Video Amplifier with 6th order filters and 6dB gain video filter. These four-channel integrated video buffer incorporates a 6th order Butterworth filter and able to be bypassed.

The input can be configured for either ac or dc-coupled inputs. The 300mV output level shift allows for a full sync dynamic range at the output with 0V input. The ac-coupled modes include a transparent sync-tip clamp option for CVBS, Y', and G'B'R' signals with sync. AC-coupled biasing for C'/P'B/P'R channels can easily be achieved by adding an external resistor.

The rail-to-rail output stage of DIO2764 with 6dB gain allows for both ac and dc line driving. The DIO2764 is an excellent choice for portable or other power-sensitive applications.

Block Diagram





DIO2764

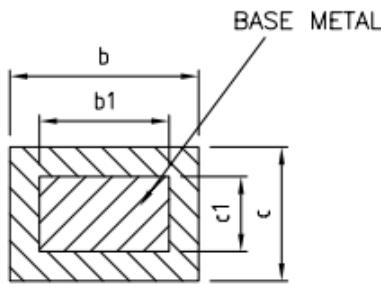
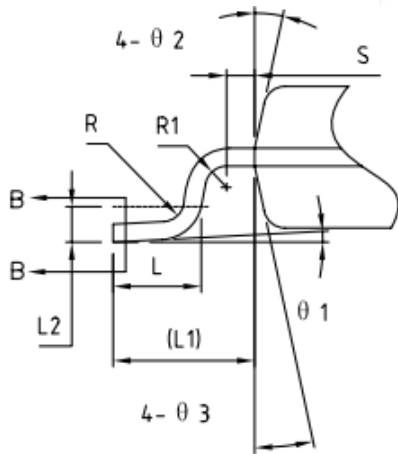
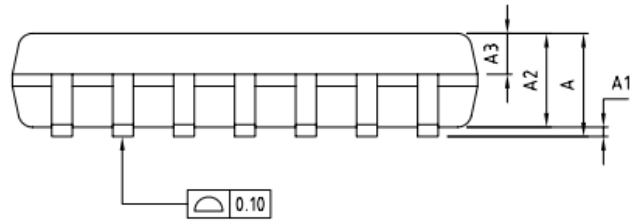
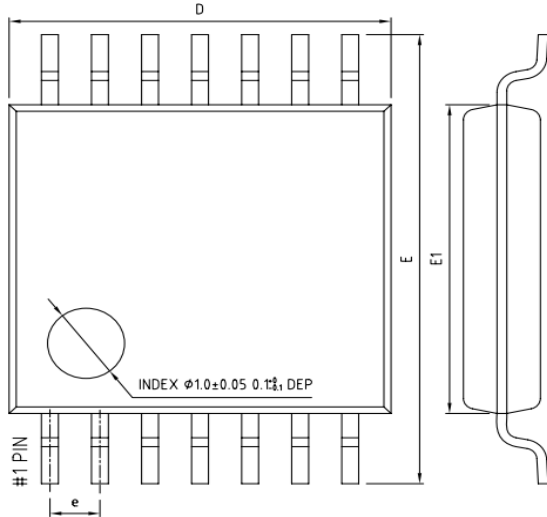
Ordering Information

Order Part Number	Top Marking		T _A	Package	
DIO2764CT14	DIO2764	RoHS or Green	-40 to +85°C	TSSOP-14	Tape & Reel, 2500

4-Channel SDTV Video Amplifier with 6th Order Filters and 6dB Gain



Physical Dimensions: TSSOP-14



SECTION B-B

COMMON DIMENSIONS
(UNITS OF MEASURE=MILLIMETER)

Symbol	MIN	NOM	MAX
A	-	-	1.2
A1	0.05	-	0.15
A2	0.90	1.00	1.05
A3	0.34	0.44	0.54
b	0.20	-	0.28
b1	0.20	0.22	0.24
c	0.10	-	0.19
c1	0.10	0.13	0.15
D	4.86	4.96	5.06
E	6.20	6.40	6.60
E1	4.30	4.40	4.50
e	0.65BSC		
L	0.45	0.60	0.75
L1	1.00REF		
L2	0.25BSC		
R	0.09	-	-
R1	0.09	-	-
S	0.20	-	-
θ1	0°	-	8°
θ2	10°	12°	14°
θ3	10°	12°	14°



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4-Channel SDTV Video Amplifier with 6th Order Filters and 6dB Gain

CONTACT US

Dioo 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.

