

For full content datatasheet, please go to $\underline{www.dioo.com/support/doc.html} \ or \ Email \ \underline{datasheet.requiry@dioo.com}$

DIO2114B

2-Vrms Audio Driver with Adjustable Gain

Features

- Voltage Output at 10kΩ Load
 2 Vrms With 3.3V Supply Voltage
- Ultra Low Distortion: SNR>100dB Typical Vn<10µVrms THD+N<0.001% at 2 Vrms
- No Pop/Clicks Noise when Power ON/OFF
- No Need for Output DC-Blocking Capacitors
- Optimized Frequency Response between 20Hz–20kHz
- Accepting Differential Input
- Featuring external under voltage mute
- All Pins HBM ESD protection 5kV
- Available in TSSOP-14 package

Applications

- Set-Top Boxes
- High Definition DVD Players
- Car Entertainment System
- Medical

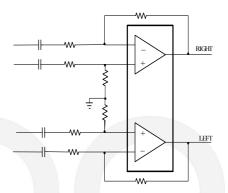
Descriptions

The DIO2114B is an integrated solution for Set-top box and high definition player, and designed to optimize the audio driver circuit performance while reducing the BOM cost by eliminating the peripheral discrete components for noise reduction. DIO2114B features a 2Vrms stereo audio driver that designed to allow for the removal of output AC- coupling capacitors.

Featuring differential input mode, gain range of ± 1 V/V to ± 10 V/V can be achieved via external gain resistor setting. The DIO2114B is able to offer 2Vrms output with 10k ohm load and 3.3V supply.

Meanwhile, the DIO2114B offers built-in shut-down control circuitry for optimal pop-free performance. Under under-voltage condition, DIO2114B is able to detect it and mutes the output.

Block Diagram

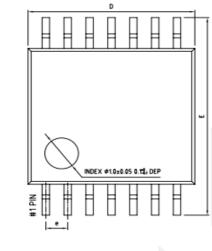


Ordering Information

Order Part Number	Top Marking		T _A	F	Package
DIO2114BTP14	DIO2114B	Green/RoHS	-40 to +85°C	TSSOP-14	Tape & Reel, 2500

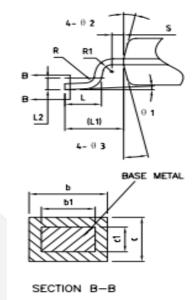
DIO2114B

Physical Dimensions: TSSOP-14





0.10



Cumah al	Dimensions In Millimeters			
Symbol	Min	Nom	Max	
Α	-	-	1.20	
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	
е		0.65BSC		
L	0.45	0.60	0.75	
L1	1.00REF			
L2	0.25BSC			
R	0.09	-	-	
R1	0.09	-	-	
S	0.20	-	-	
θ 1	0°	-	8°	
θ 2	10°	12°	14°	
θ 3	10°	12°	14°	

DIO2114B

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.