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DIO2125XM10

3Vrms Audio Driver with Adjustable Gain

Features

- Voltage Output at 2.5kΩ Load:
 3Vrms With 5V Supply Voltage
- Ultra Low Distortion: SNR>109dB Typical Vn<7µVrms THD+N<0.001%
- 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
- Output Pin HBM ESD protection 8kV
- Package available in EP-MSOP-10 with exposed Pad

Applications

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

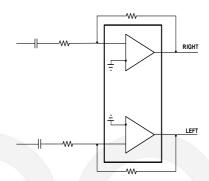
Descriptions

The DIO2125 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. DIO2125 is able to deliver up to 3Vrms audio output with no need 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 DIO2125 is able to offer 3Vrms output with 2.5k ohm load under 5V supply.

Meanwhile, the DIO2125 offers built-in shut-down control circuitry for maximum noise reduction under power-up or power-down conditions.

Block Diagram



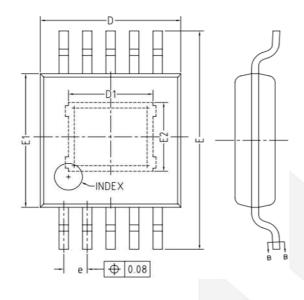
Ordering Information

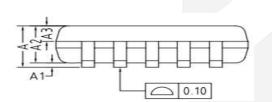
Order Part Number	Top Marking		T _A	Pa	nckage
DIO2125XM10	DIO2125	Green/RoHS	-40 to +85°C	EP-MSOP-10	Tape & Reel, 3000

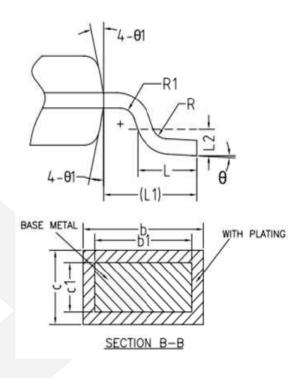


DIO2125XM10

Physical Dimensions: EP-MSOP-10(Exposed Pad)







Symbol Min Typ Max						
Min	Тур	Max				
-	-	1.10				
0	-	0.15				
0.75	0.85	0.95				
0.25	0.35	0.39				
0.18	-	0.27				
0.17	0.20	0.23				
0.15	-	0.20				
0.14	0.15	0.16				
2.90	3.00	3.10				
0.75	-	2.50				
4.70	4.90	5.10				
2.90	3.00	3.10				
0.75	/- \	2.50				
0.40	0.50	0.60				
0.40	0.60	0.80				
0.95REF						
0.25BSC						
0.07	-	-				
0.07	-	-				
0°	-	8°				
9°	12°	15°				
	0 0.75 0.25 0.18 0.17 0.15 0.14 2.90 0.75 4.70 2.90 0.75 0.40 0.40					



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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.

