

DIO2105

Ultra Low THD Audio Line Driver with Adjustable Gain

Features

- Qualified power output capability
- 2 Vrms output with 10kΩ load
 - Ultra Low Distortion SNR>100dB Typical Vn<10µVrms THD+N<0.001% at 2 Vrms
- No Pop/Clicks Noise when Power ON/OFF
- Optimized Frequency Response between 20Hz–20kHz
- Accepting Differential Input

Applications

MID

STB

Flat Panel Display

High Definition DVD Players

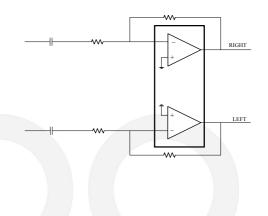
- Featuring external under voltage mute
- Available in EP-MSOP10 package

Descriptions

The DIO2105 is specially designed for flat panel TV, high definition DVD players and MID applications to optimize the audio driver circuit performance while reducing the BOM cost by eliminating the peripheral discrete components. DIO2105 features qualified power output capability under 32Ω load and more than 2Vrms stereo audio output swing under 10K ohm load with no need of AC coupling capacitors at output ports.

Featuring differential input mode, gain range of ± 1 V/V to ± 10 V/V can be achieved via external gain resistor setting. Meanwhile, the DIO2105 offers built-in power-on and shut-down control circuitry for optimal pop-free performance during power-ON and power-OFF conditions.

Block Diagram



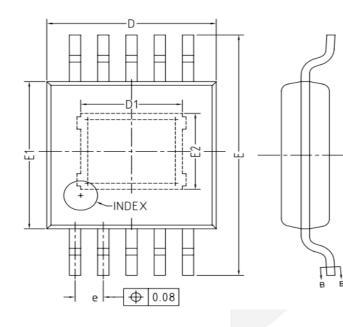
Ordering Information

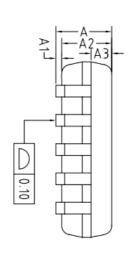
Order Part Number	Top Marking		T _A	Package	
DIO2105XM10	DIO2105	Green/RoHS	-40 to +85°C	EP-MSOP10	Tape & Reel, 3000



DIO2105

Physical Dimensions: EP-MSOP-10





4-01
4 -θ1-/ (L1) θ΄

SECTION B-B



WITH PLATING

SYMBOL	MIN	NOM	MAX		
Α	-	-	1.10		
A1	0	-	0.15		
A2	0.75	0.85	0.95		
A3	0.25	0.35	0.39		
b	0.18	-	0.27		
b1	0.17	0.20	0.23		
С	0.15	-	0.20		
c1	0.14	0.15	0.16		
D	1.90	3.00	3.10		
D1	0.75	-	2.50		
E	4.70	4.90	5.10		
E1	2.90	3.00	3.10		
E2	0.75	-	2.50		
е	0.40	0.50	0.60		
L	0.40	0.60	0.80		
L1	0.95REF				
L2	0.25BSC				
R	0.07	-	-		
R1	0.07	-	-		
θ	0°	-	8°		
Θ1	9°	12°	15°		

BASE METAL



DIO2105

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.

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DIOO: DIO2105XM10