Brick Series

1 x 2000 Watt 2 Ohm Class D Audio Amplifier Brick DBKL8 - T-AMP (AA-BK31382)



Key Features:

Output Power

2000W@2Ohm 100V DC THD+N 10% 1500W@2Ohm 100V DC THD+N 1%

- · Power and Clip Indicator
- Reverse Polarity Protection
- · Signal Level Sensor System
- Flexible Connection and High Power Density
- · Differential and Single-ended Optional
- · High Level and Low Level Gain Adjustable
- · Temperature Control Fan
- Full Protection
- · Optimized Heatsink Design
- Weight: 716g/1.58 lbs (±10%)
- 3.90inch x 3.90inch PCB size

Distributors:











All these boards are per-tested with our power supply solution to comply with FCC and CE. For all customers who need those information, please contact our distributor or Sure Electronics. RoHS compliant will need an MOQ of 1000pcs per order.

Ready for:



Contact info

• Email:

info@sure-electronics.com



Electrical Performance

Specifications typical @ +25°C, powered by 100V DC, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions		Min.	Тур.	Max.	Units
Number of Channels	-	-		1	-	-
Minimum Load Impedance	-	-		2	-	Ω
Efficiency	2000W @2Ohm, 10	00V,1kHz	-	90	-	%
Nominal Power Requirement	-		-	1200	-	W
Operating Voltage	-		48	100	120	V
	Signal detected Fan on (Load 4 Ohm) Fan off	Fan on	-	15	-	
Idle Power		(Load 4 Ohm)	Fan off	-	14	-
	No Signal	detected	-	1.2	-	W
Standby Power	SD Connected to GN	ND, Fan OFF	-	1	-	W
Switching Frequency	SD Floating@100V	SD Floating@100V		700	-	kHz
Power Consumption	1/4 of max output power@40hm,100V 1/8 of max output power@40hm,100V		-	450	-	
			-	250	-	W
Control Standby	Pull down to GND co	urrent *	-	100	-	μA

Note: * When SD is floating, the pull up voltage is 10.1 V with the amplifier working.

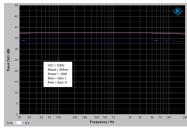
Audio Performance

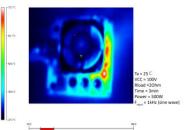
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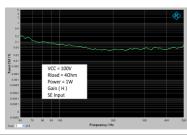
Parameter	Conditions		Min.	Тур.	Max.	Units	
	400014/	C.E.	Gain H	-	0.6	-	Vrms
Immust Compitituites	1000W @2Ohm,	SE	Gain L	-	1.0	-	
Input Sensitivity	100V,1kHz	DIEE	Gain H	-	0.65	-	
	1007, 1812	DIFF	Gain L	-	0.9	-	
		SE	Gain H	-	95	-	
SNR	200W @4Ohm	SE	Gain L	-	96	-	dB
	A-weighting	DIFF	Gain H	-	94	-	иь
	7. Worghtung	DIFF	Gain L	-	95	-	
	10W@4Ohm,1kHz		SE	-	0.02	-	
THD+N			DIFF	-	0.03	-	%
	100W@4Ohm,1kHz		SE	-	0.08	-	
			DIFF	-	0.08	-	
	SE		Gain H	-	15	-	kΩ
Innut Impodonos			Gain L	-	15	-	
Input Impedance	DIFF		Gain H	-	15	-	
			Gain L	-	15	-	
Output Noise	A-we	eighting	SE	-	400	-	uV
Level	Input Connected to GND		DIFF	-	350	-	uv
DC Offset	@40hm, 100V			-	50	-	mV
Bandwidth	@4Ohm, 100V		20	-	20k	Hz	
	@4Ohm,_1_kHz Gain ((H)	-	40	-	dB
Gain			(L)	-	36	-	
Jaiii	Output monitor	Gain=350W @2Oh	nm,100V,1kHz	-	-39	-	- UD

All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and Audio Precision AUX0025 filter. For authorized distributors and OEM customers who need more detailed performance graphs and parameter settings, please send an inquiry e-mail to us. (Not available for retail customers)

Typical Performance Graphs



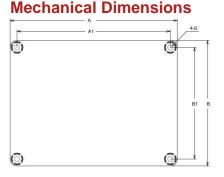




Test	Temperature		Duration/ Operation
Burn In Test	25℃	25℃	48hours
Low Temperature, Operating	0℃	0°C	Checking startup performance
High Temperature, Operating	55℃	55°C	2hours
Change of Temperature, Operating	0℃	50°C	On customers' requirement

The tests above are carried out under regular conditions. Please contact us directly if you require test reports under extreme conditions, especially for industrial and military purpose.

Dimensions	A	A1	B	B1	D
	(inch/mm)	(inch/mm)	(inch/mm)	(inch/mm)	(inch/mm)
#1	3.90/99.06	3.50/88.9	3.90/90.06	3.50/88.9	0.14/3.60

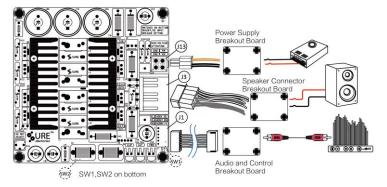


Notes:

 \cdot All dimensions are typical in inches/mm

- Tolerance $x.xx = \pm 0.02(\pm 0.50)$

Connections



Audio Input Connector:

J1 JST Connector

Pin	Function
1	ADEN
2	SD
3	MONT
4	GND
5	AUDIN-
6	AUDIN+

Speaker Output Connector:

J3 TE Connector

Pin	Function
1.2.4.5	OUT-
3,6,7,8	OUT+

Audio Input Mode Switch:

· SW1 Slide Switch

Setting	Function
UP	Single-ended
DOWN	Differential

Gain Control Switch:

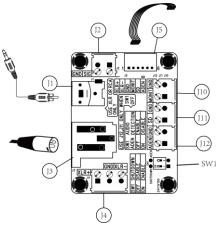
· SW2 Slide Switch

Setting	Function
Left	High
Right	Low

Power Supply Connector:

J13 Fastfit JR Header

	Pin	Function
Γ	1,3	GND
Γ	2,4	VIN



Audio Input Connector: (Use XLR or RCA Only) J1, RCA

J2, Line-in Pin

	SIG		
•	GND		
J3, J4, XLR			
Pin	Definition		
	XLR+		
•	GND		
•	XLR-		

Definition

Control Connector:

J11	
Pin	Definition
	SD
•	GND

Audio Output Connector:

J5, 6 pin cable		
Pin	Definition	
	XLR+	
•	XLR-	
•	GND	
•	MONIT	
•	SD	
•	ADEN	

Signal Detection Connector:

310			
Pin	Definition		
-	MONIT		
•	GND		
J12			
Pin	Definition		
	ADEN		
•	GND		

SW1, Use J11, J12 Only When SW1 OFF

Pin	Definition	State	Function
1 SH	SHUTDOWN	ON	ENABLE
	SHUIDOWN	OFF	DISABLE
9	AUDIO ADEN	ON	DISABLE
	DETECTION	OFF	ENABLE



Sure Electronics

Make Your Audio Application Simple!

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