Mid-Power Multichannel Series

4 x 100 Watt 6 Ohm Class D Audio Amplifier Board - TDA7498 (AA-AB33184)



Key Features:

- Output Power
- 100W@6 Ohm 36V DC THD+N 10% 70W@6 Ohm 36V DC THD+N 1%
- Active Indicator
- Overcurrent Protection
- Overtemperature Protection
- Optimized Heatsink Design
- · Low Noise Cooling Fan
- · 4-screw Easy Installation
- Weight: 580g/1.28 lbs (±10%)
- Size: 6.00 x 4.50 x 1.30 inches

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 Specifications

Specifications typical @ +25°C, powered by 36V DC, unless otherwise noted. Specifications subject to change without notice.

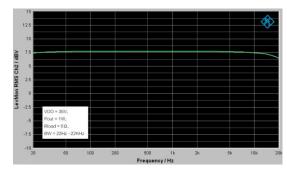
Parameter	Conditions	Min.	Тур.	Max.	Units
Power Supply	-	14	36	-	VDC
Idla Davian	SD Floating, FAN ON	-	7.9	12	W
Idle Power	SD Floating, FAN OFF	-	5.4	8	W
Standby Power	SD Connected to GND, FAN OFF	-	2.2	5	W
Maximum Current	400W @ 6 Ohm	-	12.3	-	Α
Efficiency	100W @ 6 Ohm	87	-	92	%
Minimum Load Impedance	-	-	6	-	Ω
Switching Frequency	SD Floating	-	360	-	KHz

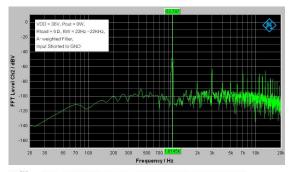
Audio Performance

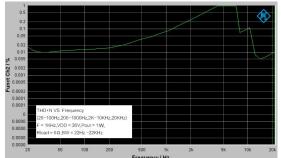
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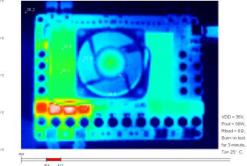
Parameter	Conditions	Min.	Тур.	Max.	Units
	K1 ON, K2 ON	-	25.6	-	dB
Gain	K1 OFF, K2 ON	-	31.6	-	dB
(Adjusted by SW1 & SW3)	K1 ON, K2 OFF	-	35.6	-	dB
(Adjusted by GVV 1 & GVV3)	K1 OFF, K2 OFF	-	37.6	-	dB
Input Sensitivity(RMS)	@ 6 Ohm, 100W, 1Khz	-	1.352	-	V
Input Impedance	-	-	33	-	ΚΩ
Output Power	@ 6 Ohm, THD+N 1%	-	70	-	W
Output Fower	@ 6 Ohm, THD+N 10%	-	100	-	W
Bandwidth @ ±3dB	@ 6 Ohm	20	-	20K	Hz
THD	@ 6 Ohm, 1W, 1Khz	-	0.0409	-	%
THD	@ 6 Ohm, 10W, 1Khz	-	0.07	-	%
Output Noise Level	A-weighting, Input Connected to GND	-	266.31	-	μV
SNR	70W @ 6 Ohm, THD+N 1%	-	95.38	-	dB

Typical Performance Graphs









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)

Model Selection Guide

Model Number	Output Power	Power Supply Range	Typical Load	Amplifier IC	Dimensions
AA-AB35281	3 X 200Watt	DC 24-36V	3Ω	T-AMP	6"X4.5"
AA-AB33184	4 X 100Watt	DC 14V-36V	6Ω	TDA7498	6"X4.5"
AA-AB33182	4 X 100Watt	DC 15-27V	4Ω	T-AMP	6"X4.5"
AA-AB34181	6 X 100Watt	DC 14V-36V	6Ω	TDA7498	6"X4.5"

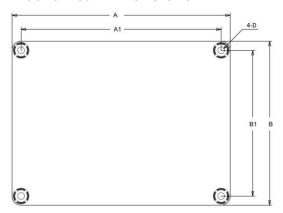
7. Suggested power supply solution: Mean Well MW 36V 12.5A 450W AC/DC Switching Power Supply SE-450-36 (PS-SP11186)

If you have other power supply requirements, please feel free to contact us.

Notes:

- 1. The output power is rated at the condition THD+N 10%,1kHz sine wave.
- 2. All amplifier boards don't employ power supply reverse polarity protection. Stresses beyond the power supply range maximum ratings may cause permanent damage.
- 3. None typical load may cause rating power reduction.
- 4. Dimensions mean length and width of PCB only, excluding excessive part out of the PCB outline.
- 5. All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and AP AUX0025 filter. Linear Power Supply units were used for testing.
- 6. Sure Electronics promises all standard products life cycle more than 5 years. Sure Electronics reserves the right to update the version without notice. All the products sent to retail customers are the latest version. We will provide back-to-order service (100 Pieces MOQ needed) for our distributors in 5 years.

Mechanical Dimensions



		А	A1	В	B1	D
Dim	nensions	(inch/mm)	(inch/mm)	(inch/mm)	(inch/mm)	(inch/mm)
		6.00/152.40	5.60/142.24	4.50/114.3	4.10/104.14	0.15/3.8

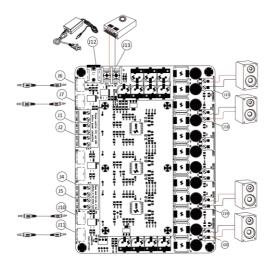
Notes:

- · All dimensions are typical in inches/mm
- Tolerance $x.xx = \pm 0.02(\pm 0.50)$

AA-AB33184, AA-AB33182: 1.30inch/33.02mm

AA-AB35281: 1.48inch/37.60mm AA-AB34181: 1.53inch/38.90mm

Connections



Power Supply Connector:

- J12 DC Jack 5.5mm/2.5mm
- J13 Terminal Block RJ128 (optional)

Pin	Function	
•	GND	
•	VCC	

Audio Input Connector:

- J6, J7, J10, J11 RCA Jack J1, J2, J3, J4, J5 Terminal Block RJ128 (optional)

	Pin	Function		Pin	Function
J1	-	CH1	J3		CH3
JI	•	GND	33	•	CH4
J2		GND	J4	-	CH5
JZ	•	CH2	34	•	GND
		GND			

Speaker Output Connector:

 J15, J16, J19, J20 Terminal Block **RJ128**

	Pin	Function
J15		OUT1-
315	•	OUT1+
J16	-	OUT2+
	•	OUT2-

	Pin	Function
140	_	OUT3-
J19	•	OUT3+
J20	-	OUT4+
	•	OUT4-



Sure Electronics

Make Your Audio Application Simple!

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