

WONDOM AA-AB34181 Class D Audio Amplifier Board Owner's Manual

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Mid-Power Multichannel Series
6 x 100 Watt 6 Ohm
Class D
Audio Amplifier Board – TDA7498
(AA-AB34181)



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Key Features:

- Output Power
 - 100W@60hm 36V DC THD+N 10%
 - 70W@60hm 36V DC THD+N 1%
- Work-ing Indicator
- Temperature Control Fan
- Overcurrent Protection
- Overtemperature Protection
- Optimized Heatsink Design
- 4-screw Easy Installation
- Weight: 610g/1.34 lbs (±10%)
- Size: 6.00 x 4.50 x 1.53 inches

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.

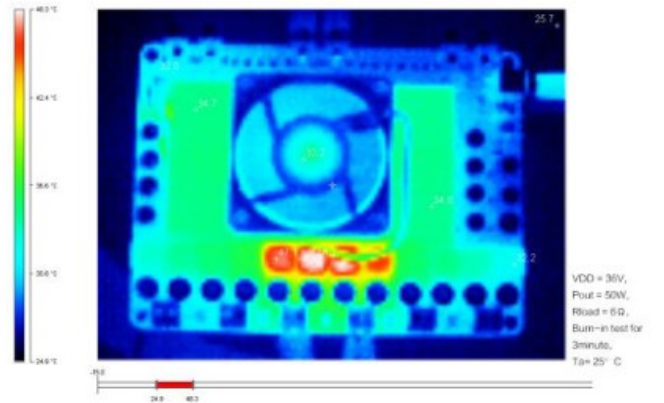
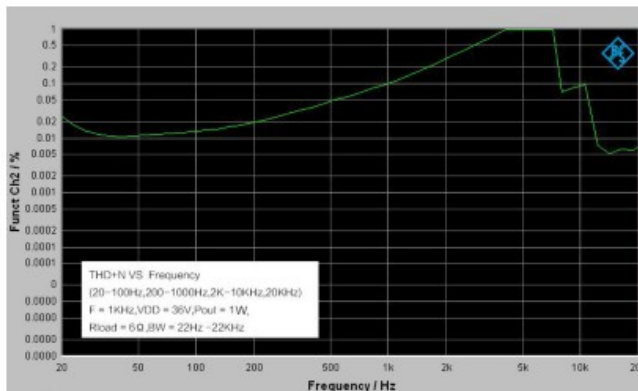
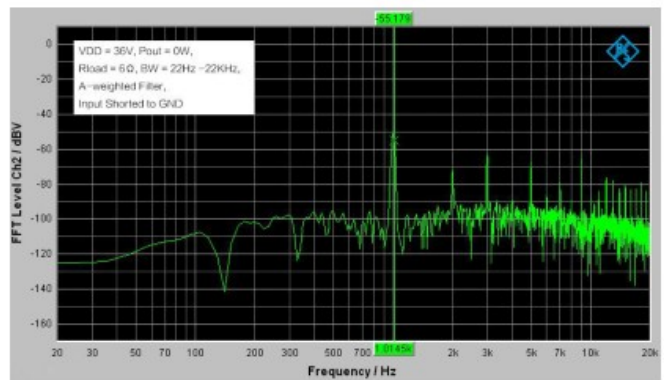
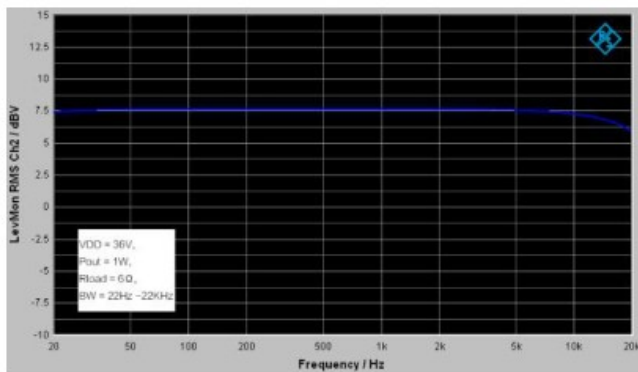
Parameter	Conditions	Min.	Typ.	Max.	Units
Power Supply	–	14	36	–	VDC
Idle Power	SD Floating, FAN ON	–	6.	10	W
	SD Floating, FAN OFF	–	4.	7	W
Standby Power	SD Connected to GND, FAN OFF	–	3.	5	W
Maximum Current	600W @ 6Ohm	–	18.	–	A
Efficiency	100W @ 6Ohm	90	–	95	%
Minimum Load Impedance	–	–	6	–	Ω
Switching Frequency	SD Floating	–	350	–	KHz
Fan Active @ Temperature	–	–	50	–	°C

Audio Performance

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

Parameter	Conditions	Min.	Typ.	Max.	Units
Gain	–	24	25	26	dB
Input Sensitivity(RMS)	@ 6 Ohm, 100W, 1Khz	–	1.		V
Input Impedance	–	–	33	–	KΩ
Output Power	@ 6 Ohm, THD+N 1%	–	70	–	W
	@ 6 Ohm, THD+N 10%	–	100	–	W
Bandwidth @ ±3dB	@ 6 Ohm	20	–	20K	Hz
THD	@ 6 Ohm, 1W, 1Khz	–	0.053	–	%
	@ 6 Ohm, 10W, 1Khz	–	0.0938	–	%
Output Noise Level	A-weighting, Input Connected to GND	–	270.	–	pV
SNR	70W @ 6 Ohm, THD+N 1%	–	94A	–	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-AB33312	2 X 200Watt +1 X 400Watt	DC 15-46V	30	T-AMP	6"X4.5"0
AA-AB33511	2 X 300Watt +1 X 500Watt	DC 24-50V	30	T-AMP	6"X4.5"
AA-AB35281	3 X 200Watt	DC 24-36V	30	T-AMP	6"X4.5"
AA-AB35191	3 X 300Watt	DC 24-40V	30	T-AMP	6"X4.5"
AA-AB35311	3 X 400Watt	DC 24-46V	30	T-AMP	6"X4.5"
AA-AB35511	3 X 500Watt	DC 24-50V	30	T-AMP	6"X4.5"
AA-AB33184	4 X 100Watt	DC 14V-36V	60	TDA7498	6"X4.5"
AA-AB34181	6 X 100Watt	DC 14V-36V	60	TDA7498	6"X4.5"

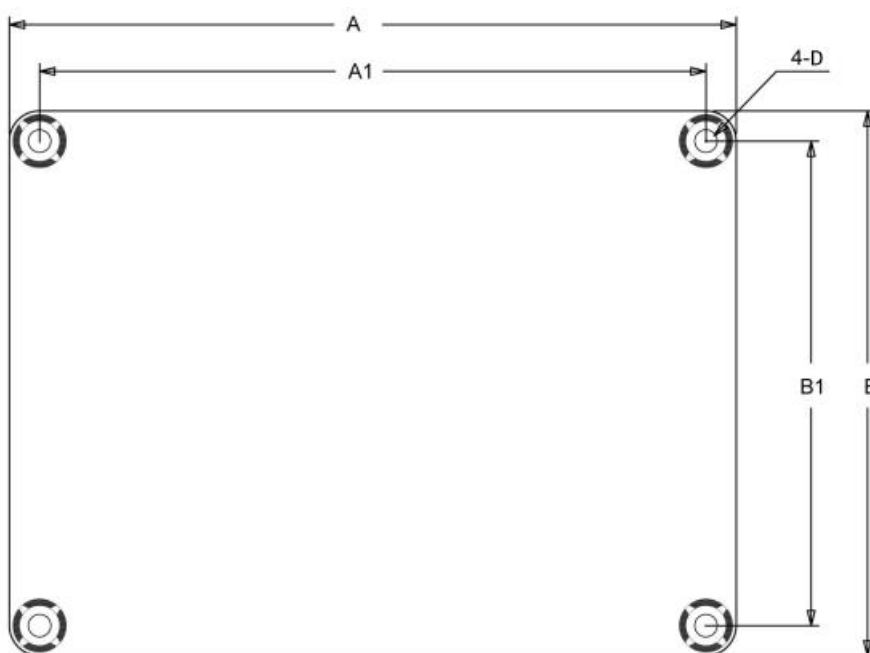
Notes:

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.

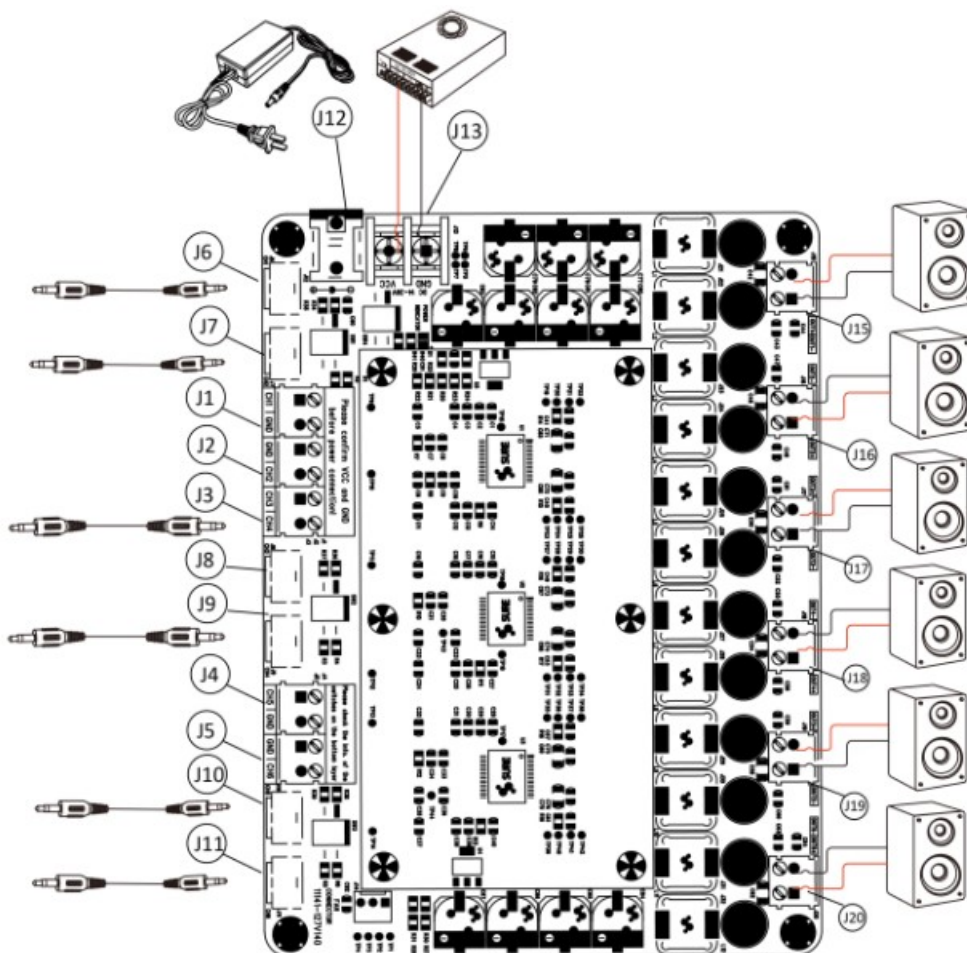
3. None typical load may cause rating power reduction.
4. Dimensions mean length and width of PCB only, excluding excessive part out of the PCB outline.
5. All parameters were tested with Rohde & Schwarz UPV audio analyzer (AES17 filter enabled) and AP AUX0025 filter. Linear Power Supply units were used 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.
7. Suggested power supply solution: Mean Well MW 36V 16.6A 600W AC/DC Switching Power Supply SE-600-36 UL/CUL(PS-SP11189)

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

Mechanical Dimensions



Connections



Dimensions	A (inch/mm)	A1 (inch/mm)	B (inch/mm)	B1 (inch/mm)	D (inch/mm)
#1	6.00/152.40	5.60/142.24	4.50/114.3	4.10/104.14	0.14/3.60

Notes:

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

Height:

AA-AB33184, AA-AB34181, AA-AB33182: 1.30inch(33.02mm)

Others: 1.48inch(37.60mm)











Power Supply Connector:

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

Pin	Function
■	GND
●	VCC

Audio Input Connector:

- J6, J7, J8, J9, J10, J11 RCA Jack
- J1, J2, J3, J4, J5 Terminal Block RJ128 (optional)

	Pin	Function
J1		CH1
		GND
J2		GND
		CH2
J3		CH3
		CH4
J4		CH5
		GND
J5		GND
		CH6

Speaker Output Connector:

- J15, J16, J17, J18, J19, J20 Terminal Block RJ128

	Pin	Function
J15	■	OUT1-
	●	OUT1+
J16	■	OUT2+
	●	OUT2-
J17	■	OUT3-
	●	OUT3+
J18	■	OUT4+
	●	OUT4-
J19	■	OUT5-
	●	OUT5+
J20	■	OUT6+
	●	OUT6-



Sure Electronics
 Make Your Audio Application Simple!
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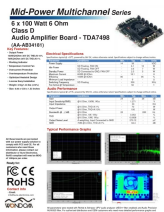
www.sure-electronics.com

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Documents / Resources

	<p>WONDOM AA-AB34181 Class D Audio Amplifier Board [pdf] Owner's Manual AA-AB34181, Class D Audio Amplifier Board, Audio Amplifier Board, Amplifier Board, AA-AB34181, Board</p>
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References

- [🌐 electronics.com](#)
- [🌐 SURE ELECTRONICS](#)
- [🌐 SURE ELECTRONICS](#)

Manuals+.