Mid-Power Multichannel Series

6 x 100 Watt 6 Ohm Class D Audio Amplifier Board - TDA7498 (AA-AB34181)



Key Features:

Output Power

100W@6Ohm 36V DC THD+N 10% 70W@6Ohm 36V DC THD+N 1%

- Active Indicator
- 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

Distributors:



Yokohama Bayside Net

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:





Electrical Specifications

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

| Parameter | arameter Conditions | | Тур. | Max. | Units |
|--|----------------------|----|------|------|-------|
| Power Supply | - | | 36 | - | VDC |
| Idle Dower | SD Floating, FAN ON | - | 6.1 | 10 | W |
| Idle Power | SD Floating, FAN OFF | - | 3.6 | 7 | W |
| Standby Power SD Connected to GND, FAN OFF | | - | 2.5 | 5 | W |
| Maximum Current 600W @ 60hm | | - | 18.1 | - | А |
| Efficiency 100W @ 60hm | | 90 | - | 95 | % |
| Minimum Load Impedance | - | - | 6 | - | Ω |
| Switching Frequency SD Floating | | - | 350 | - | KHz |

Audio Performance

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

| Parameter | Conditions | Min. | Тур. | Max. | Units |
|-----------------------------------|-------------------------------------|------|--------|------|-------|
| Cain | K1 ON, K2 ON | - | 25.6 | - | dB |
| Galli (Adjusted by SW(1, SW(2) | K1 OFF, K2 ON | - | 31.6 | - | dB |
| | K1 ON, K2 OFF | - | 35.6 | - | dB |
| 3003) | K1 OFF, K2 OFF | - | 37.6 | - | dB |
| Input Sensitivity(RMS) | @ 6 Ohm, 100W, 1Khz | - | 1.271 | | V |
| Input Impedance | - | - | 33 | - | KΩ |
| Output Bower | @ 6 Ohm, THD+N 1% | - | 70 | - | W |
| | @ 6 Ohm, THD+N 10% | - | 100 | - | W |
| Bandwidth @ ±3dB | @ 6 Ohm | 20 | - | 20K | Hz |
| | @ 6 Ohm, 1W, 1Khz | - | 0.053 | - | % |
| שחו | @ 6 Ohm, 10W, 1Khz | - | 0.0938 | - | % |
| Output Noise Level | A-weighting, Input Connected to GND | - | 270.12 | - | μV |
| SNR | 70W @ 6 Ohm, THD+N 1% | - | 94.4 | - | dB |

Typical Performance Graphs



All parameters were tested with Rohde & Schwarz UPV audio analyzer (ÅES17 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 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.

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

Height:

AA-AB33184, AA-AB33182: 1.30inch/33.02mm AA-AB35281: 1.48inch/37.60mm

AA-AB34181: 1.53inch/38.90mm

Connections





Sure Electronics

Make Your Audio Application Simple! NO.9, Weidi Road, Xianlin University City, Qixia District, Nanjing, Jiangsu Province, P.R.C

Power Supply Connector:

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

| ۰. | • / | |
|----|-----|----------|
| | 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 |
|------|-----|----------|
| 14 | | CH1 |
| 31 | • | GND |
| 12 | | GND |
| 52 | • | CH2 |
| 13 | | CH3 |
| - 55 | • | CH4 |
| и | - | CH5 |
| 54 | • | GND |
| 15 | - | GND |
| 00 | • | CH6 |

Speaker Output Connector: • J15, J16, J17, J18, J19, J20 Terminal Block RJ128

| | Pin | Function |
|------|-----|----------|
| 115 | | OUT1- |
| 515 | • | OUT1+ |
| 116 | | OUT2+ |
| 310 | • | OUT2- |
| 117 | | OUT3- |
| JII | • | OUT3+ |
| 14.0 | | OUT4+ |
| J10 | • | OUT4- |
| 110 | | OUT5- |
| 319 | • | OUT5+ |
| J20 | | OUT6+ |
| | • | OUT6- |

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