



TEMPLE AUDIO BANTAM - 2X15W INTEGRATED CLASS T AMPLIFIER



## SPECIFICATION 2.0

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## TEMPLE AUDIO BANTAM - 2X15W INTEGRATED CLASS T AMPLIFIER

### Introducing the Bantam...

An audiophile quality, class T integrated amplifier. Hand assembled in the UK to the highest standards.

Like many audio enthusiasts, we have been impressed by the clarity offered by Class T designs from Tripath. With the Bantam, we take that design to the next level.

The combination of state of the art digital amplification technology with a stylish aluminum exterior and heavy duty gold plated connectors throughout the audio path, means that the Bantam is more than a match for any high end audio equipment that might cost ten times the price.

True to its name, it really does punch above its weight.



#### Product Features

- Class T Design. 2X15W Max RMS Output.
- Ultimate Sound Quality 0.03% THD+N
- Wide Speaker Compatibility (drives 4  $\Omega$ - 8  $\Omega$  loads)
- Compact design for shortest signal path
- High Quality Aluminum Enclosure
- Energy Efficient, digital design
- Heavy Duty Gold plated Phono Inputs
- Heavy Duty Gold plated Binding post Outputs
- 1 Year Warranty

# TEMPLE AUDIO BANTAM - 2X15W INTEGRATED CLASS T AMPLIFIER

The Bantam is the result of our attention to detail and our no nonsense design philosophy. We have managed to pack the highest performing TA2024c amplifier available into a stylish compact enclosure.

The Bantam is hand assembled by audio professionals. Each stage of the design is tightly controlled and each amplifier is subjected to at least 12 hours of rigorous testing. The result is an amplifier that would satisfy the most discerning audiophile. Yet it keeps a mainstream price tag.

## Design Specification

**Manually calibrated**  
Output Offset within +/-5mV DC

**Manually tested**  
Tested electronically and with old fashioned listening.

**All soldered audio connections**

**Improved Output Stage**  
Heavy duty, hand wound toroidal core power inductors for ultimate linearity and performance of the output filter.  
2800uF Bulk smoothing capacitance, 16 times the manufacturers specified value.  
Low ESL ESR capacitors placed in parallel for optimal low impedance path to the speakers.

**Frequency Response**  
<20Hz - >20KHz

**Power Output**  
15W per channel @ 4Ω  
10W per channel @ 8Ω

**Typical Efficiency**  
90% @ 10W @ 8 Ω  
81% @ 15W @ 4 Ω

**Typical Quiescent Current**  
<60 mA while ON

**Dynamic Range**  
98dB

**Inbuilt Protection**  
Thermal and Over Current.  
Turn on and Turn off Pop suppression.  
Power supply polarity protection.

## Signal Specification

**Audio Signal Input**  
2V peak to peak single ended input for maximum output. \*  
Via Left and right phono inputs \*\*

**Power Input**  
12V DC, up to 1A by 2.1mm DC plug  
Audio Power Output: Dual 12V Bridged power output. Via left and right 4mm binding posts.

**Audio Power Output**  
Dual 12V bridged power output via left and right 4mm Binding posts.  
Via left and right 4mm binding posts.

\*This signal is typically produced by Portable Media players, PC sound cards, HiFi Pre-amplifiers and HiFi Audio sources.  
\*\*Headphone type cable supplied allowing easy connection to audio sources designed to drive headphones.

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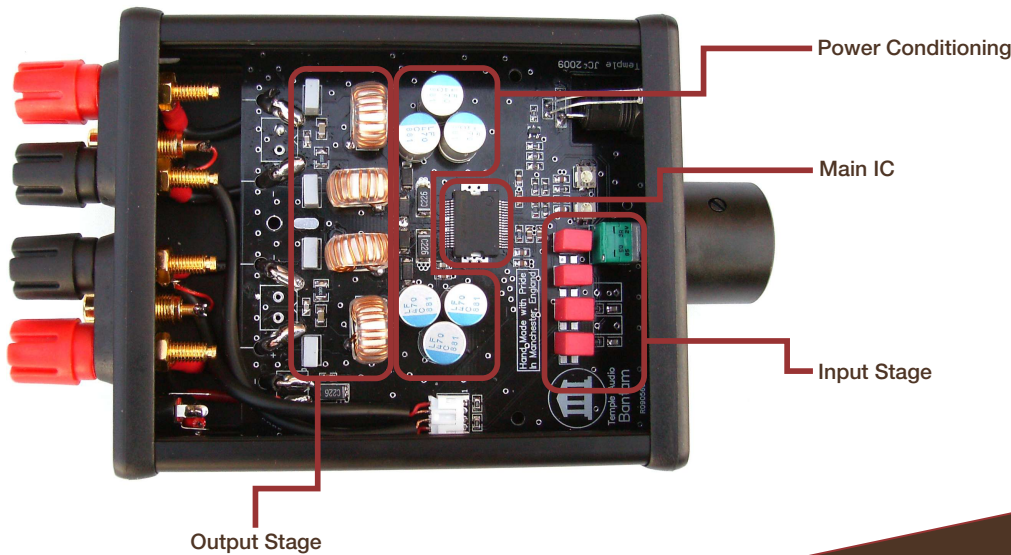
Section	Function	Component Description	Value	Manufacturer / Country of Origin	Comments
Main Processor	Class T Audio Chip	Genuine Tripath TA2024c original stock	2x15W	Tripath / Korea	
Input Stage	Audio Signal Attenuation Audio Signal Coupling Audio Signal Input	Alps Audio Taper Pot WIMA metal Film capacitors OFC copper screened cable	50Kohm 3.3/2.2uF	Alps / Japan WIMA / Germany	Separate cable for left and right
Output Stage	Output Filter Inductor Output Filter Capacitor Output Speaker connections	Gapped Toroidal core power inductor Precision Metal Film Capacitor Hard soldered, tri-rated wire	10uH 0.47uF 1.5mm	Ferroxcube core, wound by hand by TA in UK. Vishay / Germany	BS6231 UK Standard
Power Conditioning	Bulk Smoothing Capacitors Intermediate Smoothing Capacitors Decoupling Capacitors	Low ESR Electrolytic. Low ESR Tantalum NPO/COG Dielectric Ceramic	2820uF 22uF 100nF	Panasonic or Nichicon / Japan Japan Japan	Two banks of 3 parallel capacitors  Positioned under chip legs

This table highlights the key components of the Bantam Design.

The Bantam is a combination of the best components, carefully chosen from the top worldwide manufacturers in each particular field.

High performance components, combined with meticulous analog and digital design mean the Bantam is the most highly specified, high performance TA2024c Amplifier currently on the market.

The Bantam is designed and Hand Made in the UK to the highest possible standards.



## TEMPLE AUDIO BANTAM - 2X15W INTEGRATED CLASS T AMPLIFIER



Front



Back

## Physical Specification

Enclosure Dimensions:	120mm x 103mm x 31
Control Knob size:	30mm x 22mm
On Button Size:	12mm
LED Size:	6mm diffused

## Includes

Bantam Amplifier Unit  
Stereo headphone plug  
Power Supply (optional)

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audio  
[www.templeaudio.net](http://www.templeaudio.net)