


# RAY TUBES

SELECT 12AU7  
Product Media Kit

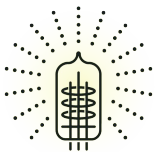


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- The background of the slide is a dark, semi-transparent image of various vacuum tubes. On the left, a tube is labeled 'SELECT EL84'. In the center, a tube is labeled 'DAY TUBES'. On the right, a larger tube is visible with multiple pins at its base.
1. The Product
  2. The Company
  3. The Numbers



# SELECT 12AU7

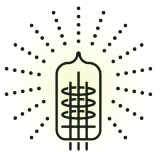
Introduced in 1946, **the 12AU7 was the world's first noval (nine-pin) vacuum tube**. The 12AU7 is a double triode, consisting of two 6C4 tubes in a single envelope. Before the advent of solid-state electronics, it was valued for its versatility and portability. Nowadays, you'll find it in the **pre-amp phase of tube amplifiers**, where it functions as a phase inverter or driver.



# Product Highlights

The **Ray Tubes SELECT Collection** offers the best tubes you'll ever need. It goes above and beyond the baseline to bring out the best in all your favourites.

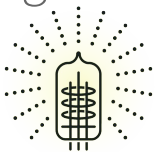
- Designed and manufactured by a team with decades of experience
- Hand-selected by engineers—only the top tubes make the cut
- Gold pins for durability and longevity
- Substantially more consistent performance than New Old Stock
- Unlike NOS and most other new production, covered by the Ray Tubes One Year Warranty




# Sound Characteristics

The SELECT 12AU7 delivers a well-balanced tonal signature with excellent resolution and dynamic sensitivity, **resulting in a clear and layered sound.**

- The bass is tight and well-controlled, with a focus on precision and clarity that makes it especially suitable for fast-paced music.
- The midrange frequencies are clear and well-resolved. Vocals sound natural with distinct layering and detail.
- The treble performance is smooth, bright, and airy. Ideal for listeners who value purity and micro-dynamic expression in their music.
- The dynamics are crisp and well-articulated, excelling at music with powerful rhythms. The soundstage has well-defined layering, enhancing the immersion of the listening experience.



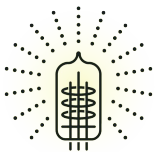
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1. The Product
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# Our Philosophy

Tube audio has brought audiophiles together for decades, but in recent years, it's **become more difficult to access than ever**. Ray Tubes is on a mission to change that. With rigorous quality control standards backed by the Ray Tubes One Year Warranty, **Ray Tubes is making reliable, consistent vacuum tubes accessible to everyone**—audiophiles old and new, musicians, retailers and amp designers around the world, and why not, even that one guy who just thinks tubes look cool on his shelf.

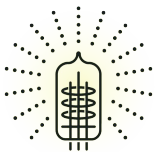
The bottom line: Ray Tubes puts in the work so you can experience the warm, vintage sound of tube audio **without the hassle**.



# Our Quality Control

Each tube undergoes **a seven-step quality control process**, including a 24-hour burn-in period, stress tests to minimise microphonics, and critical parameters that are carefully measured to ensure consistency and accurate matching. Finally, sound engineers assess each tube **under real-world listening conditions**.

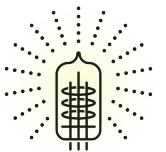
By the end of the quality control process, **only 5% of tubes commissioned for production meet Ray Tubes' standards**.





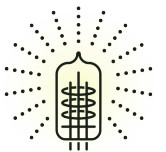
# Our Warranty

Books have been written about the countless ways vacuum tubes can and do fail. With most manufacturers, and all New Old Stock, a tube failure leaves the user high and dry. Ray Tubes is different. All Ray Tubes products are backed by the **Ray Tubes One Year Warranty**, which covers manufacturing defects for twelve months from the date of purchase.



# Partnership and Feedback

Ray Tubes is always looking to improve their products and expand their wonderful network of retail, brand, and studio partners. Is there a tube you'd love to see in the lineup? Are you interested in stocking Ray Tubes, collaborating on a product, or showing off Ray Tubes in your space? Or do you simply have a comment or question you'd like to share? Get in touch at **[help@raytubes.com](mailto:help@raytubes.com)**.

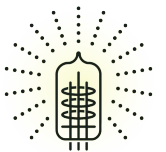


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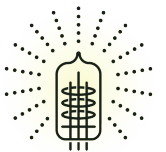
# Technical Specification

- **Tube Type:** 12AU7 / ECC82 / 6189 / CV4003
- **Tube Socket:** 9-pin
- **Max Anode Dissipation Power:** 2.75 W
- **Max Screen Dissipation Power:** N/A
- **Output Power in Class A1 Amp (Single Tube):** N/A
- **Output Power in Class AB1 Amp:** N/A

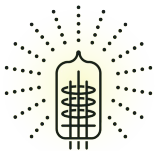
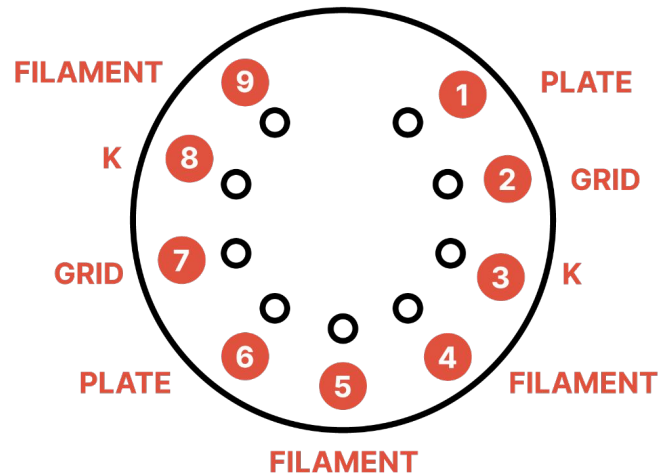


# Technical Specification

- **Max Anode Voltage:** 300 V
- **Max Screen Voltage:** N/A
- **Max Grid Voltage:** ~50 V
- **Heater Voltage:** 6.3 V
- **Heater Current:** 0.3 A
- **Transconductance:** 2.2 mA/V
- **Amplification Factor:** 17
- **Internal Resistance:** 7.7 k $\Omega$

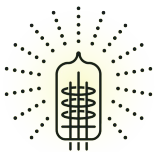


# Technical Specification



# Package Contents

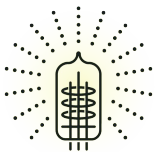
- Pair or quad of matched vacuum tubes OR single tube
- User handbook featuring burn-in guidelines
- Certificate of authenticity and warranty



# Ray Tubes Retail Partners

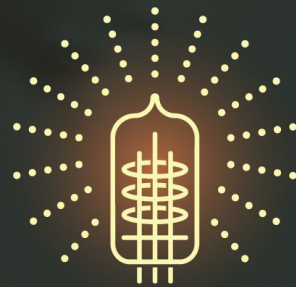
Local audio retailers are the beating heart of any community of audiophiles. No one's better placed to help you with every aspect of your purchase than your local retailer, and part of the Ray Tubes mission is to support those retailers in any way possible. That's why there are no direct sales through the Ray Tubes website. Instead, check out the extensive network of Ray Tubes retail partners at <https://raytubes.com/pages/retailers>.

You won't be disappointed.









# RAY TUBES

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