


RAY TUBES

SELECT 12AX7
Product Media Kit

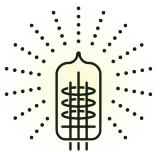


- 
- The background of the slide is a dark, semi-transparent image of various vacuum tubes. On the left, a tube is labeled 'SELECT EL84'. In the center, a tube is labeled 'DAY TUBES'. On the right, a larger tube is visible with multiple pins at its base.
1. The Product
 2. The Company
 3. The Numbers



SELECT 12AX7

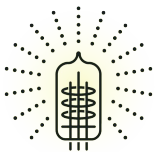
The 12AX7 vacuum tube was **introduced in 1947 as a replacement for the earlier 6SL7 family** of dual triodes, all of which were used extensively in audio applications. As one of a handful of small signal tubes that have remained in production since their first use, the 12AX7 is commonly found in the pre-amp stage of tube amplifiers and is **especially associated with the emerging electric guitar sound of the 1950s.**



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.

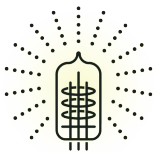
- Designed and manufactured by a team with decades of experience
- Hand-selected by engineers—only the top tubes make the cut
- Gold pins for durability and longevity
- Substantially more consistent performance than New Old Stock
- Unlike NOS and most other new production, covered by the Ray Tubes One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




Sound Characteristics

The SELECT 12AX7 delivers clear and natural sound, **perfect for users who prioritize mid-to-high frequencies and complex arrangements.**

- The bass has a precise low-end response, making it ideal for fast-paced genres.
- The midrange frequencies are delicate and well-layered. Vocals are impressively expressive, with a natural and authentic sound.
- The treble performance is clear and bright, offering a well-balanced overall sound with abundant detail.
- The dynamics are rich and precise, capturing subtle changes accurately. The soundstage is expansive with a strong sense of space.



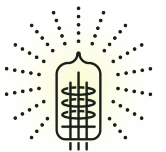
- 
- The background of the slide is a dark, semi-transparent image of various vacuum tubes. On the left, a tube is labeled 'SELECT EL84'. In the center, a tube is labeled 'RAY TUBES'. On the right, another tube is visible with some text that is partially obscured. The tubes are arranged in a way that they appear to be part of a larger electronic assembly.
1. The Product
 2. The Company
 3. The Numbers



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.

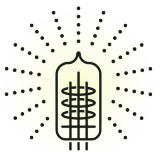
The bottom line: Ray Tubes puts in the work so you can experience the warm, vintage sound of tube audio **without the hassle**.



Our Quality Control

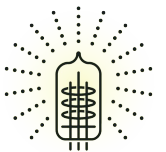
Each tube undergoes **a seven-step quality control process**, including a 24-hour burn-in period, stress tests to minimise microphonics, and critical parameters that are carefully measured to ensure consistency and accurate matching. Finally, sound engineers assess each tube **under real-world listening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

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



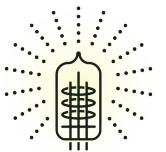
Our Warranty

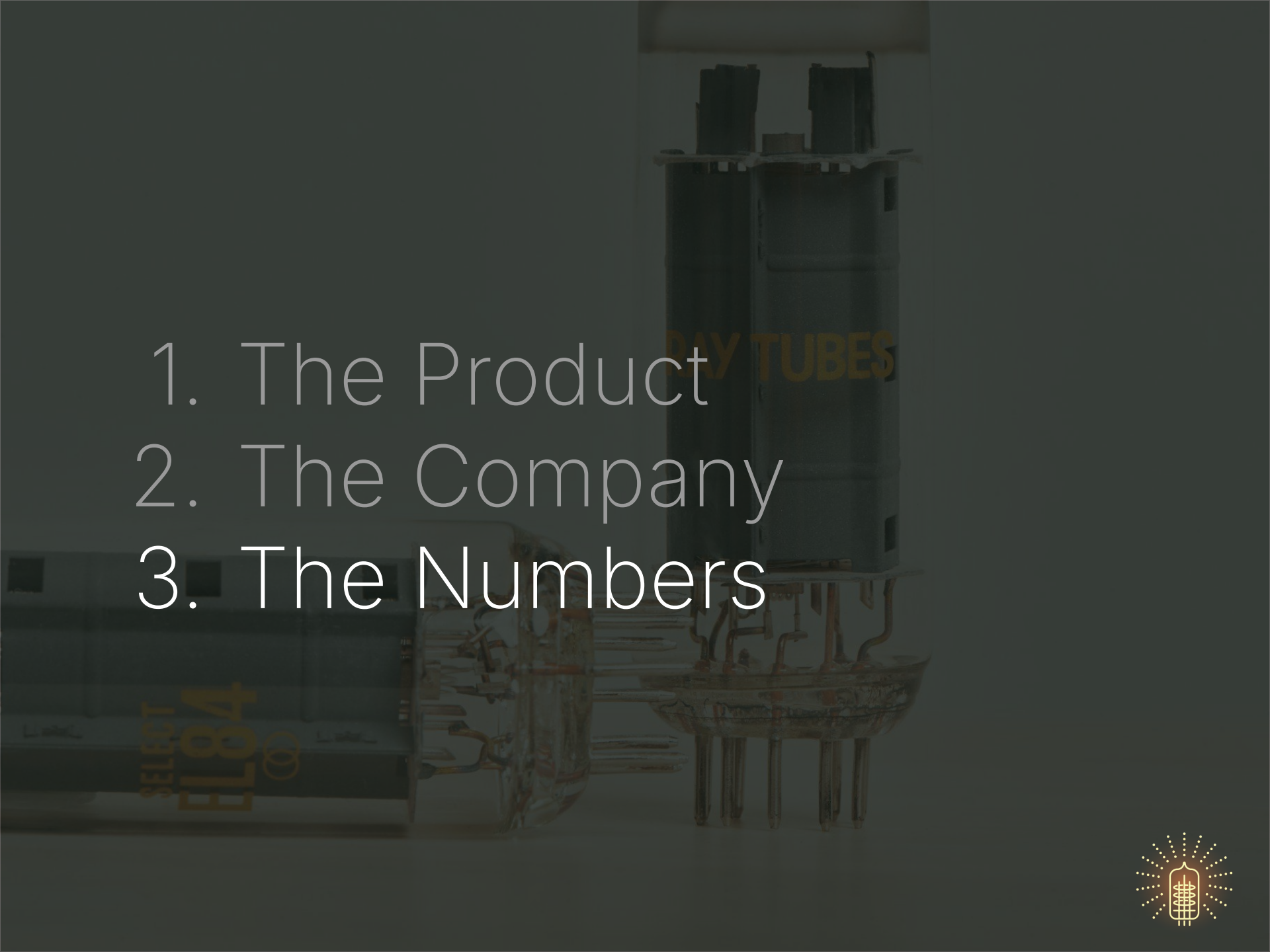
Books have been written about the countless ways vacuum tubes can and do fail. With most manufacturers, and all New Old Stock, a tube failure leaves the user high and dry. Ray Tubes is different. All Ray Tubes products are backed by the **Ray Tubes One Year Warranty**, which covers manufacturing defects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

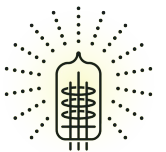


- 
- The background of the slide features a dark, semi-transparent image of several vacuum tubes. On the left, a tube is labeled 'SELECT EL84'. In the center, a tube is labeled 'RAY TUBES'. On the right, another tube is visible with some text that is partially obscured. The tubes are arranged in a way that they appear to be part of a larger electronic assembly.
1. The Product
 2. The Company
 3. The Numbers



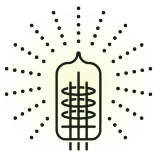
Technical Specification

- **Tube Type:** 12AX7 / ECC83 / CV4004
- **Tube Socket:** 9-pin
- **Max Anode Dissipation Power:** 1 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

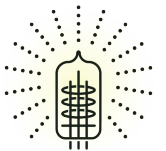
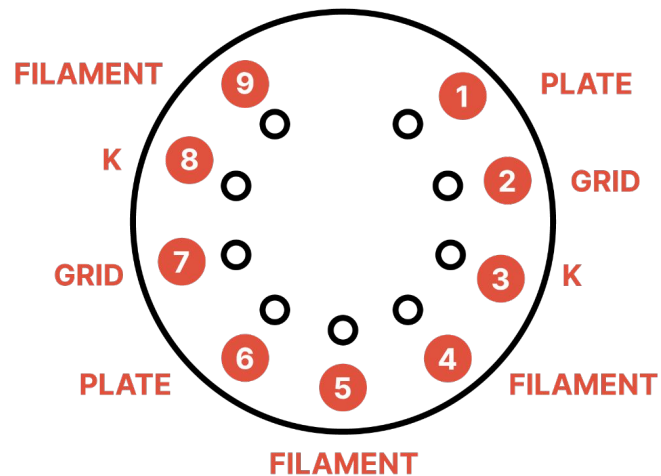


Technical Specification

- **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:** 1.6 mA/V
- **Amplification Factor:** 100
- **Internal Resistance:** 62.5 k Ω

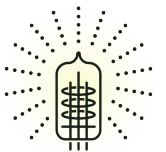


Technical Specification



Package Contents

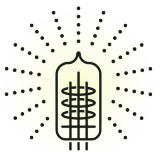
- Pair or quad of matched vacuum tubes OR single tube
- User handbook featuring burn-in guidelines
- Certificate of authenticity and warranty

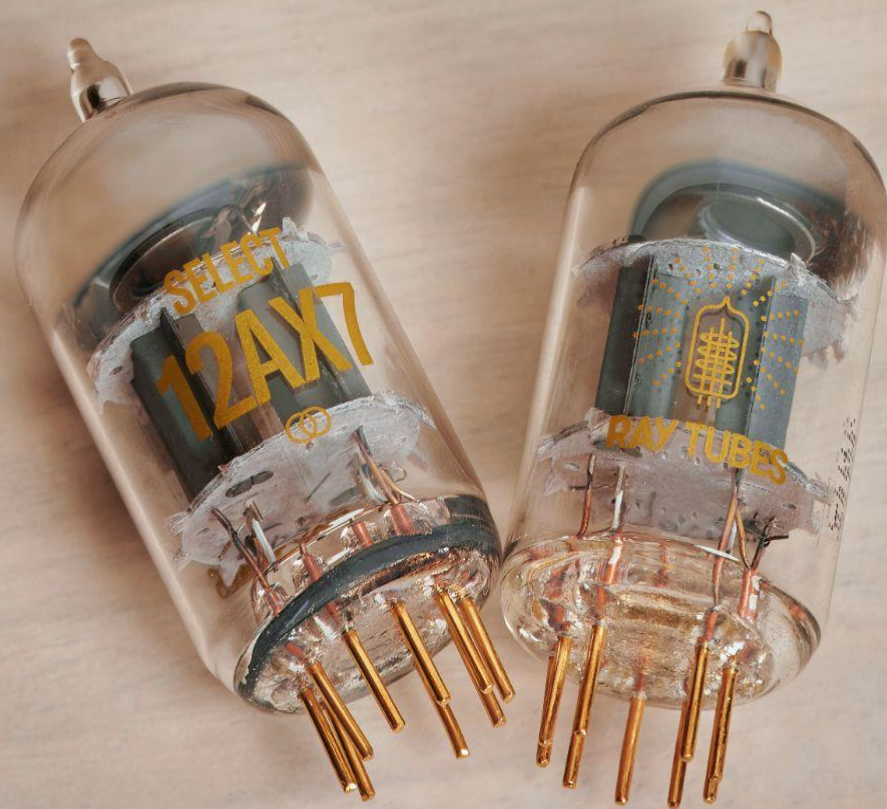


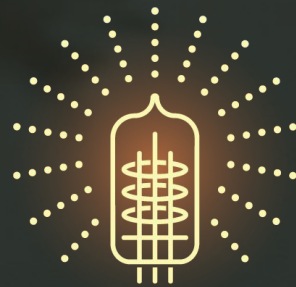
Ray Tubes Retail Partners

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

6050 Lowell St., Suite 111,
Oakland, CA, 94608, USA

