

RAY TUBES

RESERVE 300B
Product Media Kit

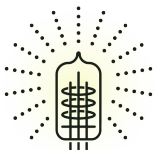


1. The Product
2. The Company
3. The Numbers



RESERVE 300B

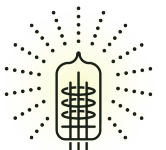
The 300B is a legendary tube. Introduced in 1938, **it powered the cinemas of Hollywood's Golden Age.** Audiophiles have treasured it for decades for its low noise and good reliability. **Ray Tubes is proud to introduce our take on a classic.**



Product Highlights

The **Ray Tubes RESERVE Collection** isn't for everyone. It's the distillation of decades of experience. RESERVE reveals audio details you never knew were there.

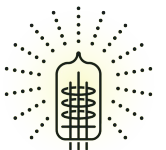
- Bespoke design and small-batch production
- Hand-selected by engineers to our most meticulous standards
- Higher quality materials, including gold pins for longevity
- Monocrystalline carbon Magic Coating for improved heat dissipation
- Substantially more consistent performance than New Old Stock
- Unlike NOS and most other new production, covered by the Ray Tubes One Year Warranty



Sound Characteristics

The RESERVE 300B delivers warm and elastic low frequencies, a delicate and layered midrange, and smooth treble, all married to **rich detail and a wide, exceptionally well-defined soundstage.**

- The bass offers a delicate and textured low-end ideal for jazz and folk.
- The midrange frequencies are full-bodied and emotional, particularly in vocals and strings, with warm and richly-layered sound.
- The treble performance is clear and airy, presenting rich nuance with a natural and gentle sound.
- The dynamic range effectively highlights contrasts in loud and soft passages, while the soundstage is wide and very well-defined with excellent depth and space.



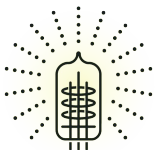
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Our Philosophy

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.

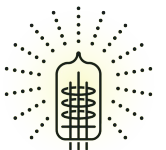
The bottom line: Ray Tubes puts in the work so you can experience the warm, vintage sound of tube audio **without the hassle**.



Our Quality Control

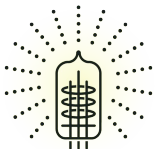
Each tube undergoes **a seven-step quality control process**, including a 24-hour burn-in period, stress tests to minimise microphonics, and critical parameters that are carefully measured to ensure consistency and accurate matching. Finally, sound engineers assess each tube **under real-world listening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

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



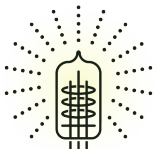
Our Warranty

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).

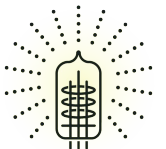


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Technical Specification

- **Tube Type:** 300B
- **Tube Socket:** 4-pin
- **Output Power**
 - **Power Output (Pout):** 6.6 W
- **Filament Specification**
 - **Filament Voltage (Uf):** 5 V
 - **Filament Current (If):** 1.2 A



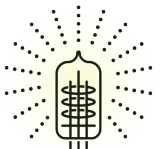
Technical Specification

- **Maximum Rating**

- **Anode Voltage (U_a):** 480 V
- **Anode Dissipation Power (P_a):** 40 W
- **Cathode Current (I_k):**
 - **Self Bias:** 100 mA | **Fixed Bias:** 70 mA

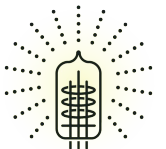
- **Interelectrode Capacitance**

- **Input Capacitance (C_{in}):** 9 pF
- **Output Capacitance:** 4.3 pF
- **Transfer Capacitance:** 15 pF

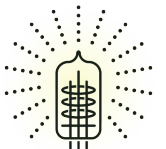
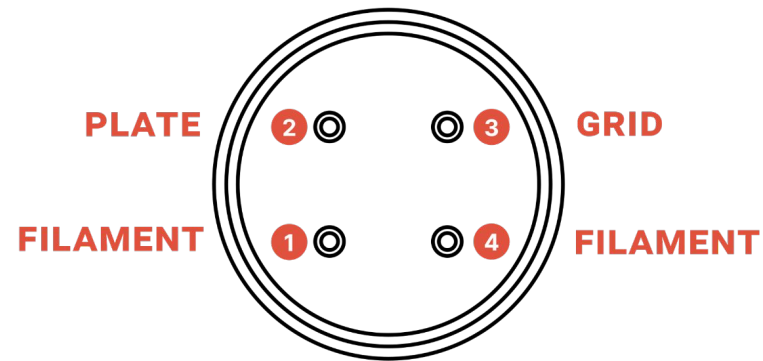
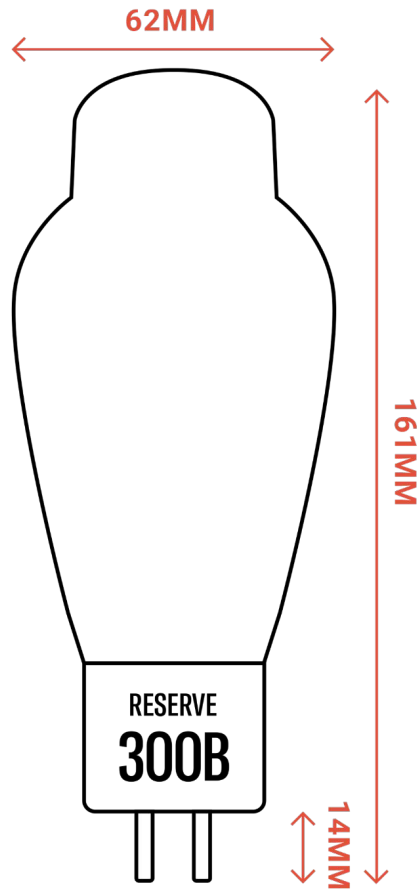


Technical Specification

- **Static Parameters**
 - **Anode Voltage (U_a):** 300 V
 - **Grid Voltage (U_g):** -60 V
 - **Anode Current (I_a):** 60 mA
 - **Transconductance (G_m):** 5.5 mA/V
 - **Internal Resistance (R_i):** 0.7 k Ω
 - **Amplification Factor (μ):** 3.85

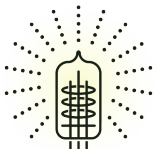


Technical Specification



Package Contents

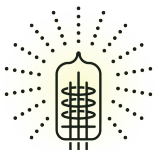
- Set of four, two or single vacuum tube
- User handbook featuring burn-in guidelines
- Certificate of authenticity and warranty



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>.

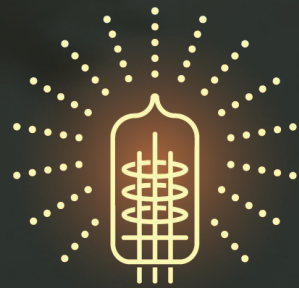
You won't be disappointed.





RAY TUBES

RESERVE
300B



RAY TUBES

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

