

## Shuguang Vacuum Tube

### Cross Reference Table

| Type                | Part Number    | Cross Reference              |
|---------------------|----------------|------------------------------|
| <b>Triode</b>       | 2A3B(2A3)      | 2A3C                         |
|                     | 2A3C(2A3)      | 2A3B                         |
|                     | 300B-98B(300B) | 300B-98                      |
|                     | 300BA(300B)    |                              |
|                     | 300BS-B(300B)  |                              |
|                     | 211            | GL-211 and UV-211            |
| <b>Beam Tetrode</b> | EL34-B         |                              |
|                     | KT66           |                              |
|                     | KT88-98(KT88), | 6550 and CV5220              |
|                     | 5881A(5881)    | 6L6G, 6L6GA, 6L6GB and 6L6GC |
|                     | 6L6GCR(6L6G)   | 6L6G and 5881                |
|                     | 6P3P           | 6L6G                         |
| <b>Pentode</b>      | EL34A(EL34)    | 6CA7                         |
|                     | EL156          | KT series and 6550           |
| <b>Emitter Tube</b> | 572B           |                              |
|                     | 805(FU-5)      | GL-805                       |
|                     | 807(FU-7J)     | UY-807                       |
|                     | 811(FU-811)    | 811A                         |
|                     | 845B           | UY-845                       |
| <b>Rectifier</b>    | 274B           | 5Z3P and 5Z3PA               |
|                     | 5Z3PAT(5Z3P)   | 5U4G and CV841               |
| <b>Compactron</b>   | 12AX7B(12AX7)  | 12AX7A, 7025 and ECC83       |
|                     | 12AT7          | GT-12AT7, 6021 and ECC81     |
|                     | 12AU7          | 5814, 6189 and ECC82         |
|                     | 6N1            | 6922 and 6DJ8                |
|                     | 6N2            |                              |

## Triode

- **2A3B (2A3)**
- **2A3C (2A3)**
- **300B-98 (300B)**
- **300BA (300B)**
- **300BS-B (300B)**
- **211**

## Shuguang Vacuum Tube 2A3 Series

### Triode: 2A3B (2A3)

#### DESCRIPTION

2A3B is compatible with 2A3. It is direct heating cathode and low power consumption. Two triodes can be used in class A and AB amplification. The output power of single tube can reach 6.5W. High evacuated tube, it achieve high performance tube in audio frequency.

#### FEATURES

- New filament hooking design
- Plate of high carbon alloy
- Using high transparency of T16 as glass envelope



**SPECIFICATION**

**Filament Heating**

U<sub>f</sub> ..... 2.5 V  
 I<sub>f</sub>.....2.5 A

**Maximum Ratings**

Plate voltage.....300 V  
 Plate power dissipation.....15 W  
 Grid resistance  
 For self-biasing voltage.....0.5 MΩ  
 For fix biasing voltage.....0.05 MΩ

**Capacitances**

Input capacitance..... 7.5pF  
 Output capacitance.....16.5pF  
 Muller capacitance.....5pF

**DC Parameters**

U<sub>a</sub>..... 300V  
 -U<sub>g</sub>..... 45V  
 I<sub>a</sub>..... 60mA  
 G<sub>m</sub>..... 5.25mA/V  
 r<sub>i</sub>..... 0.8kΩ  
 u..... 4.2  
 P<sub>out</sub>.....3.5W

**Recommended Operating Conditions (suggested value)**

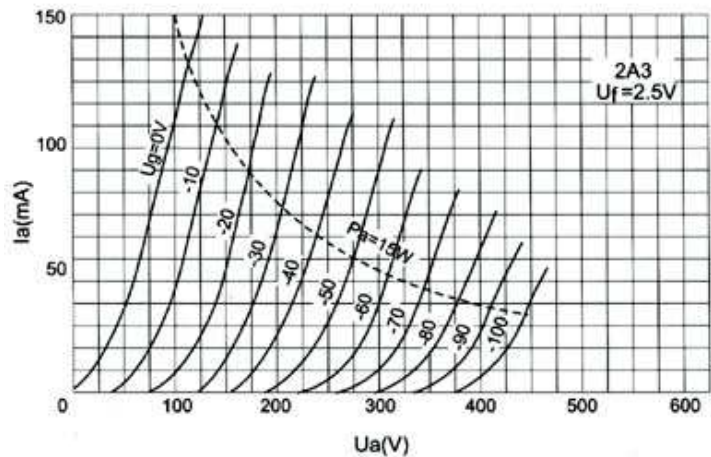
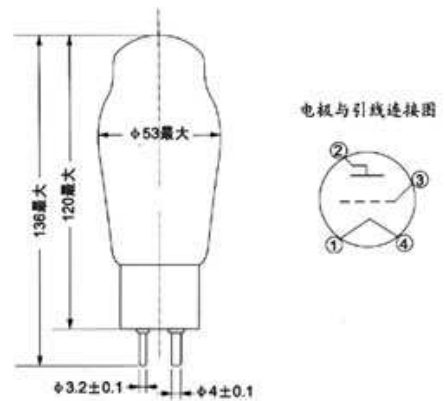
**Single tube class A amplifying (fix biasing voltage)**

U<sub>a</sub>..... 250V  
 -U<sub>g</sub>.....45V  
 R<sub>L</sub>.....2.5 kΩ  
 I<sub>a</sub>(0).....60mA  
 G<sub>m</sub>.....5.25 Ma/V  
 r<sub>i</sub>.....0.8 KΩ  
 u.....4.2  
 P<sub>out</sub>.....3.5 W  
 D<sub>tot</sub>.....5 %

**Driving class AB amplifier**

**fixed biasing self-biasing**

U<sub>a</sub>.....300      300 V  
 -U<sub>g</sub>.....62V      R<sub>k</sub>=780Ω  
 R<sub>L</sub>.....3          5 kΩ



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üg(pk).....87 110 V  
Ia(0).....80 80 mA  
Ia(max.sig)...140 100 mA  
Pout.....15 10 W  
Dtot.....2.5 5 %

## Shuguang Vacuum Tube 2A3 Series

### Triode: 2A3C (2A3)

*Compatible with: 2A3B*

### DESCRIPTION

2A3C is compatible with 2A3 and 2A3B. Direct heating cathode and low power consumption. Two triodes can be used for class A and AB amplification.

### FEATURES

- Gold-plated pins, ceramic tube socket
- Using high transparency tube envelop of 300B
- New design of filament hooking
- High evacuated tube, make it more stable and reliable.
- Fix three layer mica film provides firm inner structure for anti-vibration and reduces microphone effect.



**SPECIFICATION**

**Filament Heating**

Uf ..... 2.5 V  
If.....2.5 A

**Maximum Ratings**

Plate voltage.....300 V  
Plate dissipation power.....15 W  
Grid resistance  
When it is self-biasing voltage.....0.5 MΩ  
When it is fix biasing voltage.....0.05 MΩ

**Capacitances**

Input capacitance..... 7.5 PF  
Output capacitance.....16.5 PF  
Muller capacitance.....5.5 PF

**DC Parameters**

Ua..... 300 V  
-Ug..... 45 V  
Ia..... 60 mA  
Gm..... 5.25 mA/V  
ri..... 0.8 kΩ  
u..... 4.2  
Pout.....3.5 W

**Recommended Operating Condition (reference value)**

**Single tube for class A amplifying(fix biasing voltage)**

Ua..... 250 V  
-Ug.....45 V  
RL.....2.5 kΩ  
Ia(0).....60 mA  
Gm.....5.25 Ma/V  
ri.....0.8 KΩ  
u.....4.2  
Pout.....3.5 W  
Dtot.....5 %

**For class AB amplifier**

**fixed biasing self-biasing**

Ua.....300 300 V  
-Ug.....62 Rk=780Ω V  
RL.....3 5 kΩ  
üg(pk).....87 110 V  
Ia(0).....80 80 mA

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Ia(max.sig)...140 100mA  
Pout.....15 10 W  
Dtot.....2.5 5 %



## Shuguang Vacuum Tube 300B Series

### Triode: 300B-98 (300B)

#### DESCRIPTION

**300B-98** is compatible with **300B**

Vacuum tube 300B-98 is new and improved version of 300B. Direct heating cathode, medium power consumption triode is used for class A amplification. It is dedicated to be used in audio frequency range which requires the output power 100W.

300B-C long-life design, use pure graphite anode and its plate power dissipation can reach up to 60W. If the design parameters are adjusted properly, single tube can used as class A amplification, and can delivery the output power higher than 20W.

#### FEATURES

- Gold-plated grid and tube socket pins



**SPECIFICATION**

**Filament Heating**

U<sub>f</sub>(DC).....5V  
 I<sub>f</sub>(DC) ..... 1.2A

**Maximum Ratings**

Plate voltage.....480V  
 Plate dissipation power.....40W  
 Cathode current  
 Self-biasing voltage.....100mA  
 Fixed-biasing voltage.....70mA

**Capacitances**

Input capacitance.....9pF  
 Output capacitance.....4.3pF  
 Muller capacitance.....15pF

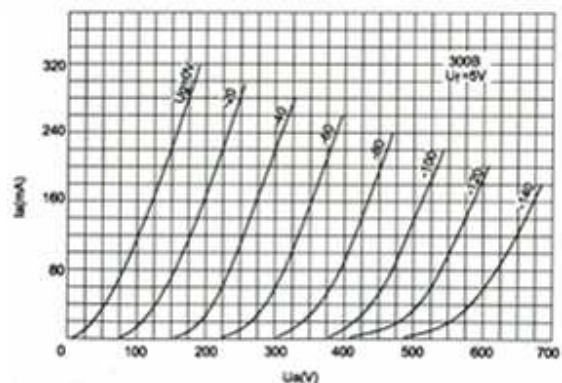
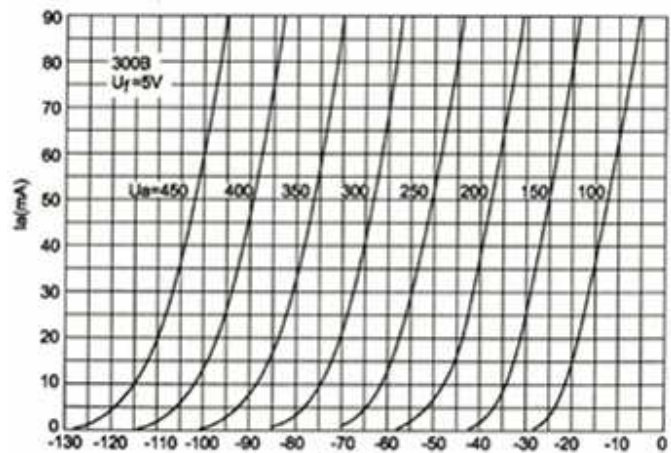
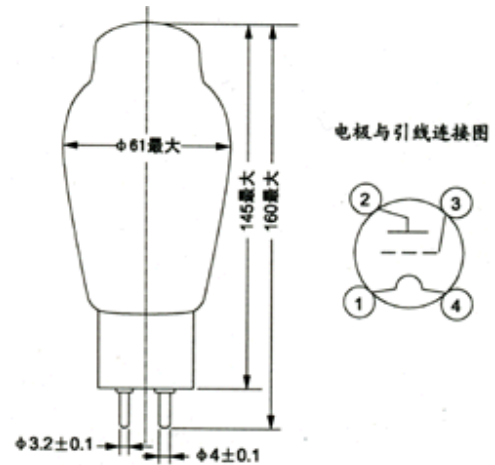
**DC Parameters**

U<sub>a</sub>.....300V  
 -U<sub>g</sub>..... 60V  
 I<sub>a</sub>.....60mA  
 G<sub>m</sub>.....5.5mA/V  
 R<sub>i</sub>.....700Ω  
 u.....3.85  
 P<sub>out</sub>.....6.6W

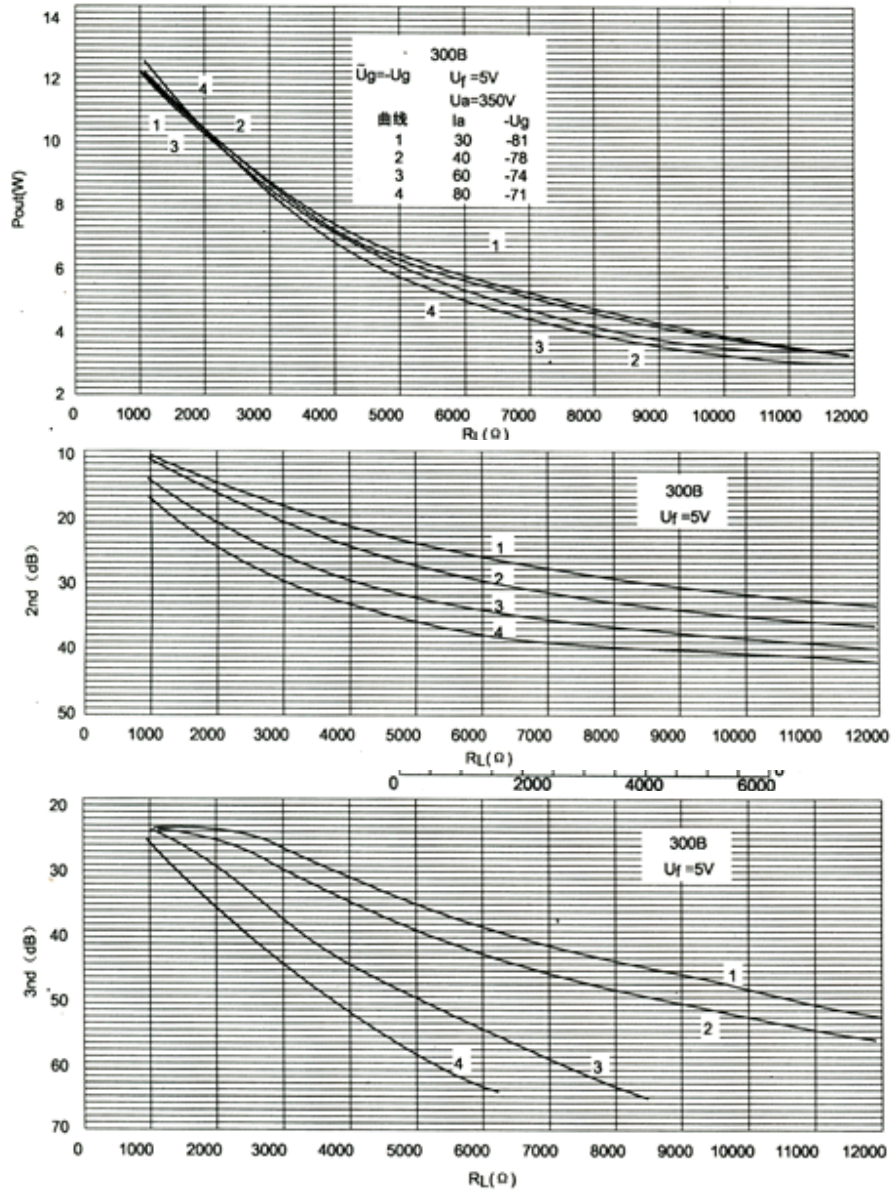
**Recommended Operating Conditions**

For Audio frequency amplifier  
 Class A amplifier:

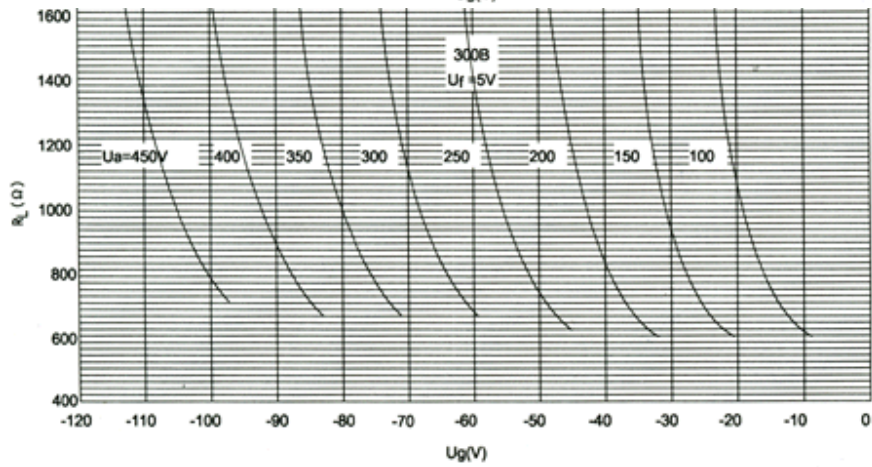
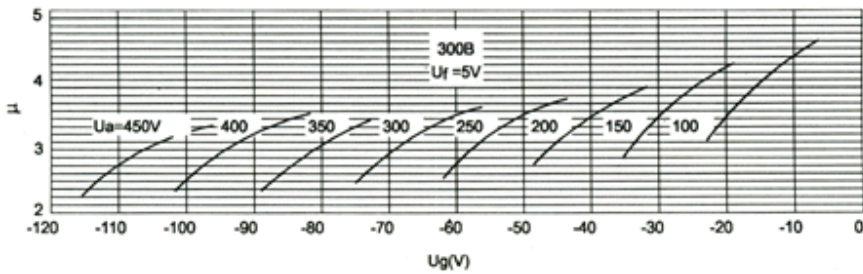
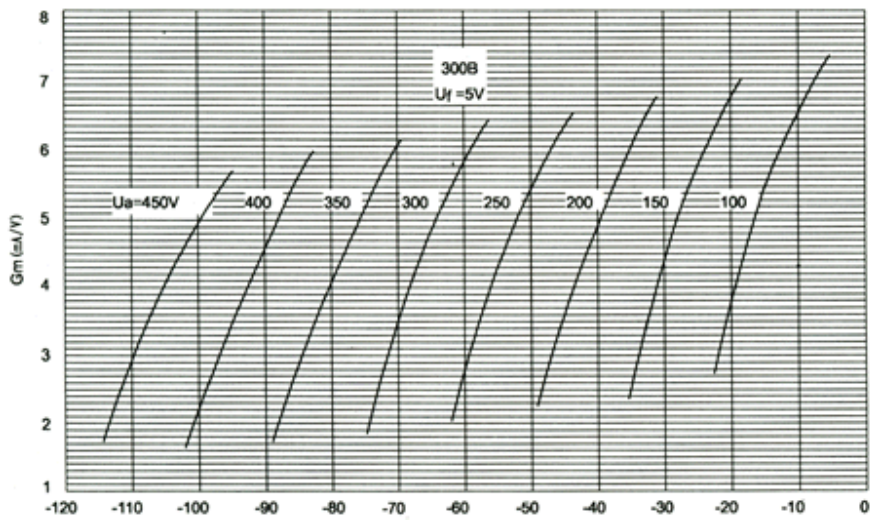
| U <sub>a</sub> | U <sub>g</sub> | I <sub>a</sub> | RL   | P <sub>out</sub> | 2nd |
|----------------|----------------|----------------|------|------------------|-----|
| V              | V              | mA             | ohm  | W                | db  |
| 200            | 42             | 30             | 2000 | 3                | 20  |
| 200            | 39             | 40             | 2500 | 2.6              | 26  |
| 250            | 55             | 30             | 2000 | 4.9              | 18  |
| 250            | 52             | 40             | 3000 | 4.0              | 26  |
| 250            | 50             | 50             | 2500 | 4.4              | 26  |
| 250            | 48             | 60             | 2000 | 4.7              | 30  |
| 250            | 48             | 60             | 2700 | 5.0              | 26  |
| 250            | 45             | 80             | 1500 | 5.0              | 26  |
| 300            | 65             | 40             | 2500 | 6.7              | 20  |
| 300            | 63             | 50             | 2000 | 7.2              | 21  |
| 300            | 63             | 50             | 3000 | 6.1              | 26  |
| 300            | 61             | 60             | 2400 | 6.6              | 26  |
| 300            | 58             | 80             | 1700 | 7.5              | 26  |
| 350            | 76             | 50             | 3600 | 7.8              | 26  |



350 74 60 2000 10.2 21  
 350 74 60 3000 8.3 26  
 350 74 60 4000 7.0 30  
 350 71 80 2200 9.6 26  
 400 91 40 5000 8.4 26  
 400 89 50 1000 11.5 21  
 400 89 50 4000 9.4 25  
 400 87 60 3500 10.5 26  
 400 84 80 2500 12.5 25  
 450 104 40 6000 9.5 26  
 450 102 50 5000 10.7 27  
 450 100 60 4000 12.5 26  
 450 100 60 5500 10.1 30  
 450 97 80 2000 17.8 21  
 450 97 80 1000 14.6 26  
 450 97 80 4500 11.5 31







## Shuguang Vacuum Tube 300 Series

### Triode: 300BA (300B)

#### DESCRIPTION

300BA is compatible with 300B. Direct heating cathode, medium power consumption, two triodes can be used in the class A amplification. It is adapted to be used in audio frequency range which requires high output power of 100W.

300B-C long-life design, use pure graphite anode and plate power dissipation can reach up to 60W. If you adjust the design parameters properly, single tube can be used as class A amplifier, and can delivery output power higher than 20W.

#### FEATURES

- Carbonized nickel plate
- Gold-plated grid and tube socket pins
- Ceramic tube socket
- New design of filament hooking



**SPECIFICATION**

**Filament Heating**

U<sub>f</sub>(DC).....5V  
I<sub>f</sub>(DC) ..... 1.2A

**Maximum Ratings**

Plate voltage.....480V  
Plate dissipation power.....40W  
Cathode current  
For self-biasing voltage.....100mA  
For fixed-biasing voltage.....70mA

**Capacitances**

Input capacitance.....9pF  
Output capacitance.....4.3pF  
Muller capacitance.....15pF

**DC Parameters**

U<sub>a</sub>.....300V  
-U<sub>g</sub>..... 60V  
I<sub>a</sub>.....60mA  
G<sub>m</sub>.....5.5mA/V  
R<sub>i</sub>.....700 Ω  
u.....3.85  
P<sub>out</sub>.....6.6W

## Shuguang Vacuum Tube 300B Series

### Triode: 300BS-B (300B)

#### DESCRIPTION

300BS-B is compatible with 300B, direct heating cathode and medium power consumption. Two triodes can be used in the class A amplification. It is adapted to be used in audio frequency range which requires high output power of 100W. 300B-C long-life design, use pure graphite anode and plate power dissipation can reach up to 60W. If the design parameters are adjusted properly, single tube can use as class A amplifier, and can delivery output power higher than 20W.

#### FEATURES

- Gold-plated socket pins
- White ceramic tube socket
- Carbonized nickel plate reduces reflection of electrons, reserving the original audio signal
- Filament hooking by using single slice of spring reduces the parasitic capacitances



**Specification**

**Filament voltage**

U<sub>f</sub>(DC).....5V  
I<sub>f</sub>(DC) ..... 1.2A

**Maximum ratings**

Plate voltage.....480V  
Plate dissipation power.....40W  
Cathode current  
For self-biasing voltage.....100 mA  
For fixed-biasing voltage.....70 mA

**Capacitances**

Input capacitance.....9PF  
Output capacitance.....4.3PF  
Muller capacitance.....15PF

**DC parameters**

U<sub>a</sub>.....300V  
-U<sub>g</sub>..... 60 V  
I<sub>a</sub>.....60mA  
G<sub>m</sub>.....5.5mA/V  
R<sub>i</sub>.....0.7 Kohm  
u .....3.85  
P<sub>out</sub>.....6.6W



# Shuguang Vacuum Tube 211

## Triode: 211

*Compatible with: GL-211 and UV-211*

## DESCRIPTION

Directed heat cathode, 211 triode can be used in class A, B, C amplifying stage. 211 vacuum tube is compatible with GL-211, UV-211 and can be replaced each other.



**SPECIFICATION**

**Filament Heating**

UH..... 10 V

IH..... 3.2 A

**Maximum Ratings**

Ua.....1000 1250 1250 V

Ug..... 72 95 V

Ia..... 130 106 150 mA

Pa(in).....150 W

Pa.....100 W

ü(pk)..... 125 125 V

Ig(approx) ..... 5 1 mA

Pg(in).(approx) ... 10 7.5 W

Pout..... 40 42.5 W

**Capacitance**

Input capacitance.....6pPF

Output capacitance.....5.5pF

Muller capacitance.....14.5pF

**DC Parameters**

Ua.....1000 1250 1250 V

-Ug..... 72 95 V

Ia..... 130 106 150 mA

Pa(in).....150 W

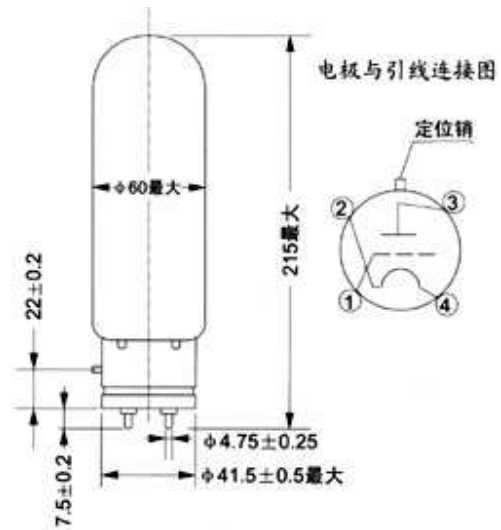
Pa.....100 W

ü(pk)..... 125 125 V

Ig(approx) ..... 5 1 mA

Pg(in).(approx) ... 10 7.5 W

Pout..... 40 42.5 W



## Beam Tetrode

- **EL34-B**
- **KT66**
- **KT88-98 (KT88)**
- **5881A (5881)**
- **6L6GCR (6L6G)**
- **6P3P**

## Shuguang Vacuum Tube EL34 Series

### Tetrode: EL34-B

#### DESCRIPTION

Plate power dissipation of EL34-B can reach 30W, whereas EL34A is 25W. EL34-B belongs to tetrode tube compared to pentode tube of EL34A. g1 and g2 of EL34-B is not exactly aligned opposite to each other and it is used in linear power amplification.



**SPECIFICATION**

**Filament Heating**

UH.....6.3V  
IH.....1.5A

**Maximum Ratings**

Plate voltage.....800V  
Second grid voltage.....500V  
First grid voltage.....-100V  
plate power dissipation.....25W  
Second grid power dissipation.....8W  
Cathode current.....150mA  
First grid resistance  
For self-biasing.....0.7MΩ  
For fixed-biasing.....0.5MΩ  
Filament voltage between cathode.....100V

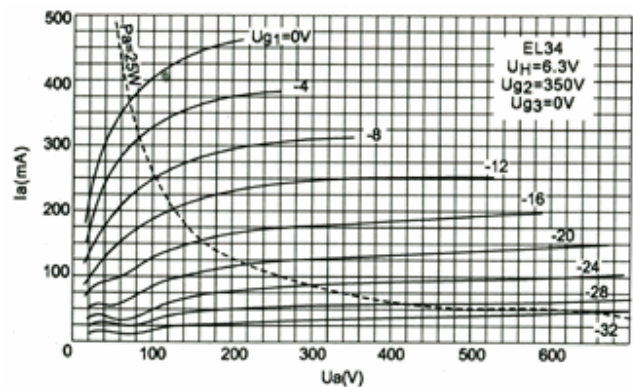
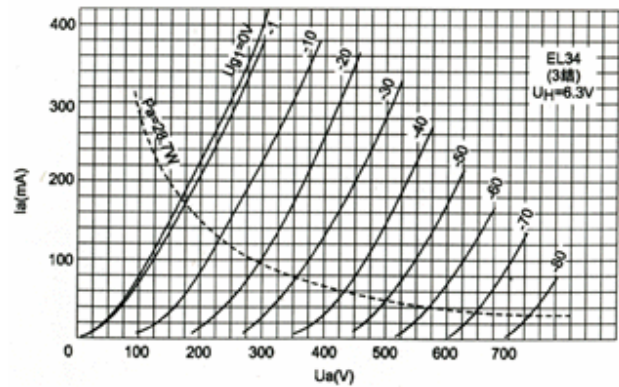
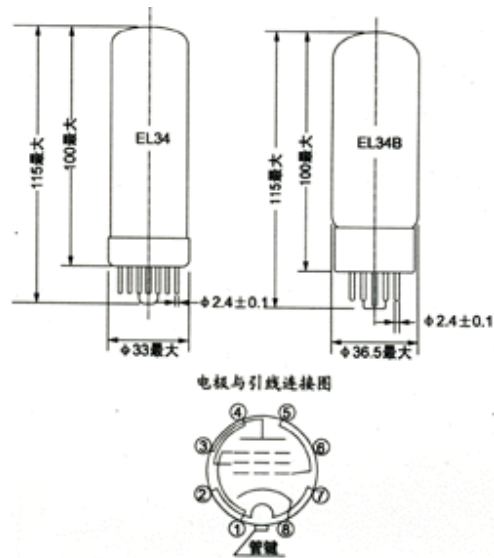
Temperature of glass  
envelop.....250°C

**Capacitances**

Input capacitance.....15.2pF  
Output capacitance.....8.4pF  
Muller capacitance.....1.1pF  
First grid-heater capacitance.....1.0pF  
Heater filament capacitance.....10pF

**DC Parameters**

Ua.....250V  
Ug2.....250V  
Ug3.....0V  
-Ug1.....12.2V  
Ia.....100mA  
Gm.....11mA/V  
ri.....15kΩ  
ug1-g2.....11



## Shuguang Vacuum Tube KT Series

### Beam Tetrode: KT66

#### DESCRIPTION

The power dissipation of beam power tube KT66 can reach 25W. For audio frequency amplifier, it can be used to class A and AB amplification.





**SPECIFICATION**

**Filament Heating**

UH.....6.3 V  
 IH.....1.27 A

**Maximum Ratings**

Tetrode config. triodes config.  
 Plate voltage.....500 ---400 V  
 Plate dissipation power..... 25 ---25--W  
 Second grid voltage.....400V  
 Second grid power dissipation.....35W  
 Cathode current.....200mA  
 Heater voltage between cathodes... ±100V  
 Girst grid resistance  
 for fix-biasing voltage.....0.1 MΩ  
 for self-biasing voltage.....0.5 MΩ

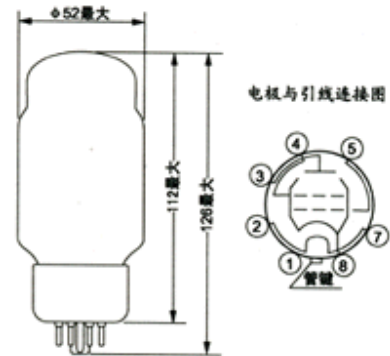
**Capacitances**

Tetrode config. triodes config

Input capacitance..... 16 ----8.7pF  
 Output capacitance.....11.5 ----15.8pF  
 Muller capacitance..... 1.1 ----7.2pF

**DC Parameters**

Ua.....250 V  
 Ug2..... 250 V  
 -Ug1..... 15 V  
 Ia..... 85 mA  
 Ig2..... 6.3 mA  
 Gm.....6.3 mA/V  
 ri.....22.5 kΩ  
 RL.....2.2 kΩ  
 Pout.....7.25 W  
 Dtot..... 9.0 %



## Shuguang Vacuum Tube KT Series

### Beam Tetrode: KT88-98 (KT88)

*Compatible with: 6550 and CV5220*

#### DESCRIPTION

The power dissipation of beam power tube KT88-98 can deliver power of 42W. For audio frequency amplifier, if two tubes are used as class AB amplification, the output power can reach 100W. At the same time, KT88-98 can also be used in rectifying circuitry. KT88-98 is the compatible with CV5220 and 6550, and can be replaced each other.





**SPECIFICATION**

**Filament Heating**

UH.....6.3V  
IH.....1.6A

**Maximum Ratings**

|  | KT94 | KT100 | KT94 | KT100 |
|--|------|-------|------|-------|
| Plate voltage.....                       | 800  | 800   | 800  | 800V  |
| Second grid voltage.....                 | 600  | 600   | 600  | 600V  |
| First grid voltage.....                  | 200  | -200  | -200 | -200V |
| Plate power dissipation.....             | 42   | 45    | 35   | 40W   |
| Second grid power dissipation..          | 8    | 8     | 6    | 6W    |
| Plate plus second grid power dissipation | 46   | 49    | 40   | 45W   |
| cathode current.....                     | 230  | 230   | 230  | 230mA |
| heater voltage between cathodes          | 200  | 200   | 250  | 250V  |
| temperature of glass crust.....          | 250  | 250   | 250  | 250 C |

**First grid resistance**

For self-biasing

Pa + Pg2 < 35W 0.47 MΩ

Pa +Pg2 > 35W 0.27 MΩ

For fixed-biasing

Pa +Pg2 < 35W 0.22 MΩ

Pa +Pg2 > 35W 0.10 MΩ

**Capacitance**

Tetrode config. Triodes config.

Input capacitance..... 16---- 9.3pF

Output capacitance..... 12 ---- 17pF

Muller capacitance..... 1.2 ----7.9pF

**DC Parameters**

**Tetrode config.**

Ua.....250V

Ug2..... 250V

a..... 140mA

Ig2(approx)..... 3mA

-Ug1(approx).....15V

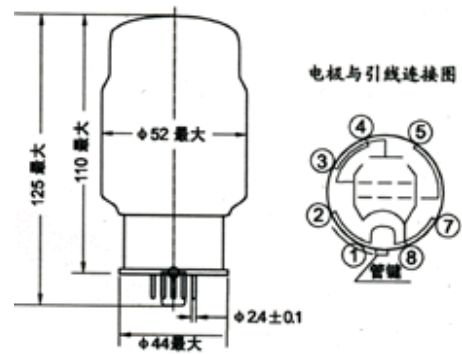
Gm..... 12mA/V

ri .....12KΩ

ug1-g2..... 8

**Triodes config.**

Ua.g2.....250V



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Ia+g2.....143mA  
-Ug1(approx)... 15V  
Gm.....12mA/V  
ri.....670Ω  
u ..... 8

# Shuguang Vacuum Tube 5881

## Beam Tetrode: 5881A (5881)

*Compatible with: 6L6G, 6L6GA, 6L6GB and 6L6GC*

### DESCRIPTION

The plate power dissipation of beam power tube 5881A can reach 23W. For audio frequency amplifier, two tubes can be used as class A and AB amplification. 5881A also can be used as rectifying circuitry. 5881A is compatible with 6L6G, 6L6GA, 6L6GB and 6L6GC, and they can be substituted each other.



**SPECIFICATION**

**Filament Heating**

UH .....6.3 V  
IH.....0.9 V

**Maximum Ratings**

Plate voltage.....400 V  
Capacitance between grid No.2 and heater.....400 V  
Plate power dissipation.....23 W  
Second grid power dissipation.....3 W  
Geater voltage between cathodes.....±200 V  
First grid resistance  
For self-biasing.....0.5 MΩ  
For fixed-biasing.....0.1 MΩ

**Capacitance**

input capacitance.....11.5 PF  
output capacitance.....9.5 PF  
Muller capacitance.....0.9 PF

**DC Parameters**

Ua.....250V  
Ug2.....250V  
-Ug1.....14V  
Ia.....72 mA  
Ig2.....5 mA  
Gm.....6 mA/V  
ri.....22.5 kΩ  
ug1-g2.....6.2  
Pout.....6.5 W

**Recommend Operating Condition** (suggested value)

For single tube class A amplifier

Maximum ratings for class A amplification

Ua(0).....300 V  
Ug2.....200 V  
-Ug1(approx).....12.5 V  
RL.....4.5 kΩ  
üg(pk).....12.5 V  
Ia(0).....48 mA  
Ia(max.sig).....55 mA  
Ig2(0) .....2.5 mA  
Ig2(max.sig) .....4.7 mA  
Gm.....5.3 mA/V  
ri.....35 kΩ  
Pout.....6.5 W  
Dtot.....11 %

Maximum ratings for class A amplification

Ua.g2(0).....300 V  
-Ug1(approx).....20 V  
RL.....4 kΩ  
üg(pk).....20 V  
Ia+g2.....78 V  
Ia+g2(max.sig).....85 mA  
Pout.....1.8 W  
Dtot.....5.5 %

**Class AB amplifier**

Operating condition(value of two tubes)

|                   |              |
|-------------------|--------------|
| Ua.g2(0).....     | 400 V        |
| -Ug1(approx)..... | 45 V         |
| Rl.....           | 4 k $\Omega$ |
| üg(g1-g1.pk)..... | 90 V         |
| Ia+g2.....        | 65 mA        |
| Ia(max.sig).....  | 130 mA       |
| Pout.....         | 13.3 W       |
| Dtot.....         | 4.4 %        |

**Class AB amplifier**

Operating condition(value of two tubes)

|                   |                  |
|-------------------|------------------|
| Ua(0).....        | 360 360 V        |
| Ug2.....          | 225 270 V        |
| -Ug1(approx)..... | 18 22.5 V        |
| Rl.....           | 6 3.8 k $\Omega$ |
| üg(g1-g1.pk)..... | 36.7 50.9 V      |
| Ia(0).....        | 78 88 mA         |
| Ia(max.sig).....  | 142 205 mA       |
| Ig2(0).....       | 3.5 5 mA         |
| Ig2(max.sig)..... | 11 16 mA         |
| Pout.....         | 31 42 W          |
| Dtot.....         | 2 2 %            |

## Shuguang Vacuum Tube 6L6GCR

### Beam Tetrode: 6L6GCR (6L6G)

*Compatible with: 6L6G and 5881*

#### DESCRIPTION

Beam power tube 6L6G, 6L6GA, 6L6GB and its plate power dissipation can reach 19W. For audio frequency amplifier, it can be used as class A and AB amplifier. At the same time, these tubes also can be used rectifying circuitry. These tubes are compatible with 5881 and 6L6GC, and can be substituted with each other.



**SPECIFICATION**

**Filament Heating**

UH..... 6.3 V

IH..... 0.9 A

**Maximum Ratings**

|                                     | Tetrode config. | Triodes config. |
|-------------------------------------|-----------------|-----------------|
| Plate voltage.....                  | 360             | 275V            |
| Plate power dissipation.....        | 19W             | 19W             |
| Second grid voltage.....            | 270V            | -               |
| Second grid power dissipation.....  | 2.5W            | -               |
| Heater voltage between cathodes.... | ±180            | ±180            |
| For fix-biasing voltage.....        | 0.1MΩ           | 0.1MΩ           |
| For self-biasing voltage.....       | 0.5MΩ           | 0.5MΩ           |

**Capacitance**

input capacitance..... 11.5PF

output capacitance..... 9.5PF

Muller capacitance..... 0.9PF

**DC Parameters**

Ua..... 250V

Ug2..... 250V

-Ug1..... 14V

Ia..... 72 mA

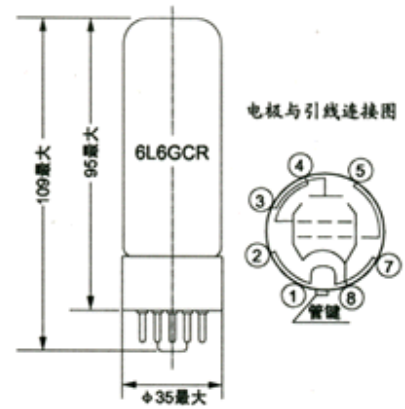
Ig2..... 6 mA

Gm..... 6 mA/v

ri..... 22.5kΩ

μg1-g2..... 6.2

Pout..... 6.5



**Recommended Operating Condition(suggested value)**

For single tube class A amplifier(fixed-biasing)

|                   |            |
|-------------------|------------|
| Ua(b).....        | 250 350 V  |
| Ug2.....          | 250 250 V  |
| -Ug1.....         | 14 18 V    |
| Üg1(pk).....      | 14 18 V    |
| Ia(0).....        | 72 54 mA   |
| Ia(max.sig).....  | 79 66 mA   |
| Ig2(0).....       | 5 2.5 mA   |
| Ig2(max.sig)..... | 7.3 7 mA   |
| ri.....           | 22.5 33 kΩ |
| Pout.....         | 6.5 10.8 W |
| Dtot.....         | 10 15 %    |

**Driving class A amplifier**

|                   | Fix-biasing | Self-biasing |           |
|-------------------|-------------|--------------|-----------|
| Ua(b).....        | 250         | 270          | 270 V     |
| Ug2.....          | 250         | 270          | 270 V     |
| -Ug1.....         | 16          | 17.5         | Rk=125Ω V |
| Ü(g1-g1.pk)...    | 32          | 35           | 28.2 V    |
| Ia(0).....        | 60          | 67           | 67 mA     |
| Ia(max.sig).....  | 70          | 77.5         | 72 mA     |
| Ig2(0).....       | 5           | 5.5          | 5.5 mA    |
| Ig2(max.sig)..... | 8           | 8.5          | 8.5 mA    |
| ri(per tube)..... | 24.5        | 23.5         | - kΩ      |
| Gm(per tube)..... | 5.5         | 5.7          | - mA/V    |
| RL(a-a).....      | 5           | 5            | - kΩ      |
| Pout.....         | 14.5        | 17.5         | 18.5 W    |
| Dtot.....         | 2           | 2            | 2 %       |

For Single tube class A amplifying (self-biasing)

|                   |            |
|-------------------|------------|
| Ua(b).....        | 250 300 V  |
| Ug2.....          | 250 200 V  |
| Rk.....           | 170 220 ?  |
| Üg1(pk).....      | 14 12.5 V  |
| Ia(0).....        | 75 51 mA   |
| Ia(max.sig).....  | 78 54.5 mA |
| Ig2(0).....       | 5.4 3.2 mA |
| Ig2(max.sig)..... | 7.2 4.6 mA |
| RL.....           | 2.5 4.5 kΩ |
| Pout.....         | 6.5 6.5 W  |
| Dtot.....         | 10 11 %    |

**Single tube class A amplifying triodes config.**

|                   | Fixed-biasing | Self-biasing |    |
|-------------------|---------------|--------------|----|
| Ua.g2(b).....     | 250           | 250          | V  |
| -Ug1.....         | 20            | Rk=490Ω      | V  |
| Üg1(pk).....      | 20            | 20           | V  |
| Ia+g2(0).....     | 40            | 40           | mA |
| Ia+g2(max.sig)... | 44            | 42           | mA |
| ri.....           | 1.7           | -            | kΩ |
| μ.....            | 8             | -            |    |

**Driving class AB amplifier**

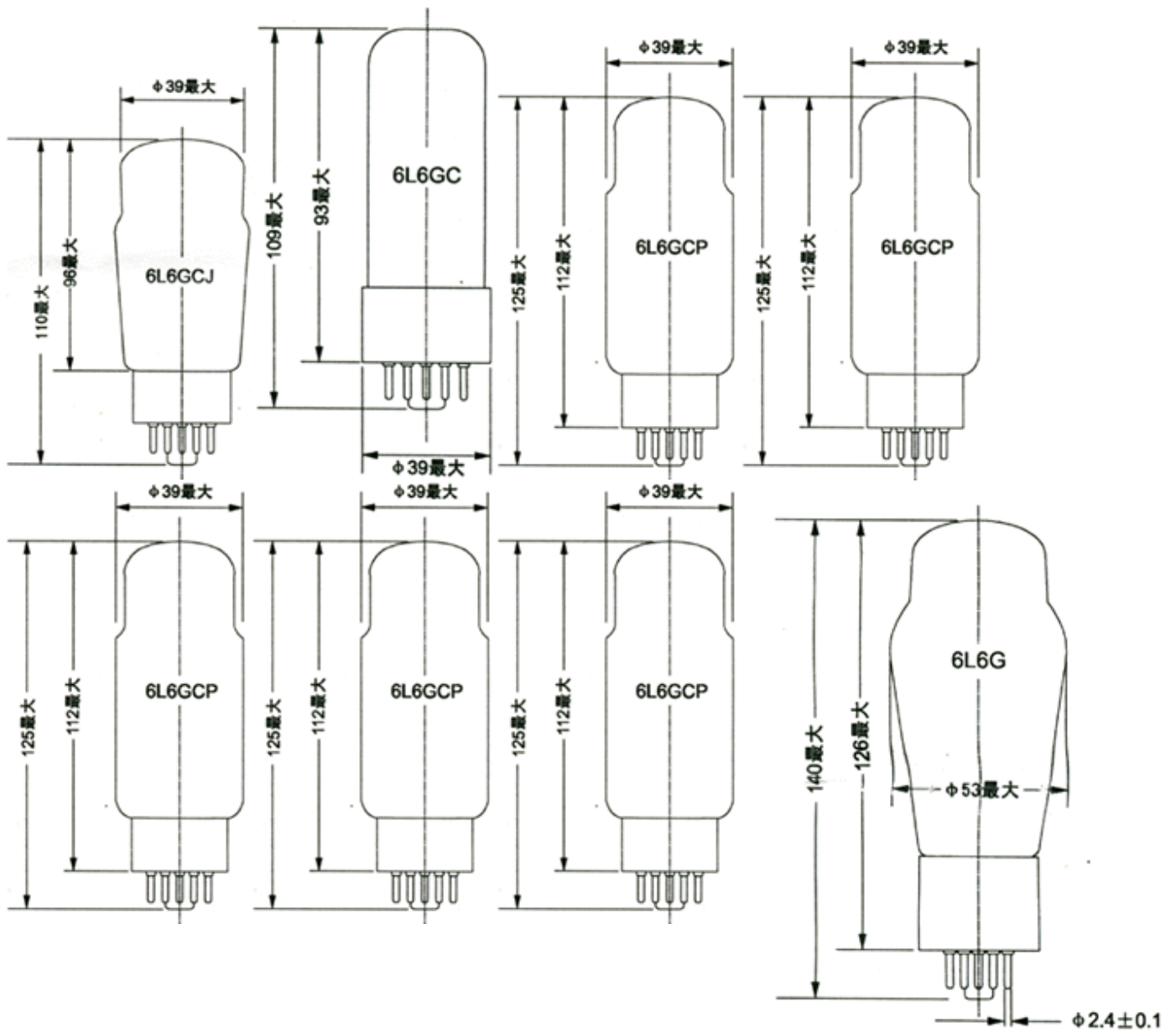
|                | Fix-biasing | Self-biasing |           |
|----------------|-------------|--------------|-----------|
| Ua(b).....     | 360         | 360          | 360 V     |
| Ug2.....       | 270         | 270          | 270 V     |
| -Ug1.....      | 22.5        | 22.5         | Rk=250Ω V |
| Ü(g1-g1.pk)... | 45          | 45           | 40.6 V    |
| Ia(0).....     | 88          | 88           | 88 mA     |



|           |     |     |      |                   |      |     |      |    |
|-----------|-----|-----|------|-------------------|------|-----|------|----|
| Gm.....   | 4.7 | -   | mA/V | Ia(max.sig).....  | 132  | 140 | 100  | mA |
| RL.....   | 5   | 6   | kΩ   | Ig2(0).....       | 5    | 5   | 5    | mA |
| Pout..... | 1.4 | 1.3 | W    | Ig2(max.sig)..... | 15   | 11  | 17   | mA |
| Dtot..... | 5   | 6   | %    | RL(a-a).....      | 6.6  | 3.8 | 9    | kΩ |
|           |     |     |      | Pout.....         | 26.5 | 18  | 24.5 | W  |
|           |     |     |      | Dtot.....         | 2    | 2   | 4    | %  |

**Driving class AB amplifier**

|                   | Fix-biasing | Self-biasing |    |
|-------------------|-------------|--------------|----|
| Ua(b).....        | 360         | 360          | V  |
| Ug2.....          | 225         | 270          | V  |
| -Ug1.....         | 18          | 22.5         | V  |
| Ü(g1-g1.pk)...    | 52          | 72           | V  |
| Ia(0).....        | 78          | 88           | mA |
| Ia(max.sig).....  | 142         | 205          | mA |
| Ig2(0).....       | 3.5         | 5            | mA |
| Ig2(max.sig)..... | 11          | 16           | mA |
| RL(a-a).....      | 6           | 3.8          | kΩ |
| Pout.....         | 31          | 47           | W  |
| Dtot.....         | 2           | 2            | %  |



## Shuguang Vacuum Tube 6P3P

**Beam Tetrode: 6P3P**

*Compatible with: 6L6G*



## **PENTODE**

- **EL34A**
- **EL156**

## Shuguang Vacuum Tube EL34 Series

### **Pentode: EL34A (EL34)**

*Compatible with: 6CA7*

### **DESCRIPTION**

EL34A achieves high performance in audio frequency range. It is a pentode tube with plate power consumption reach to 25W. For audio frequency amplifier, if single tube is used as class A amplifier, the output power can deliver higher than 10W; if two tubes are used as class AB amplifier, the output power can be higher than 35W. EL34A is the compatible with EL34 and 6CA7, and can be substituted each other.



**SPECIFICATION**

**Filament Heating**

UH.....6.3 V  
IH.....1.5 A

**Maximum Ratings**

Plate voltage..... 800 V  
Second grid voltage..... 500 V  
First grid voltage..... -100 V  
Plate power dissipation..... 25 W  
Second grid power dissipation..... 8 W  
Cathode current.....150mA  
First grid resistance  
For self-biasing.....0.7 MΩ

For fixed-biasing.....0.5 MΩ  
Heater voltage between cathodes.....±100 V  
Temperature of glass envelope.....250°C

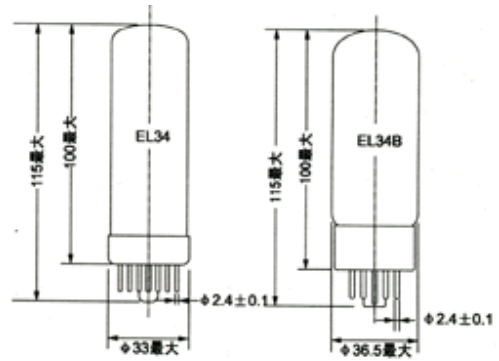
**Capacitance**

Input capacitance..... 15.2pF  
Output capacitance..... 8.4pF  
Muller capacitance..... 1.1pF

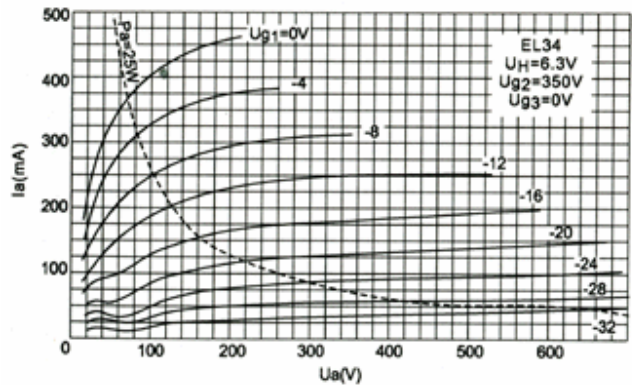
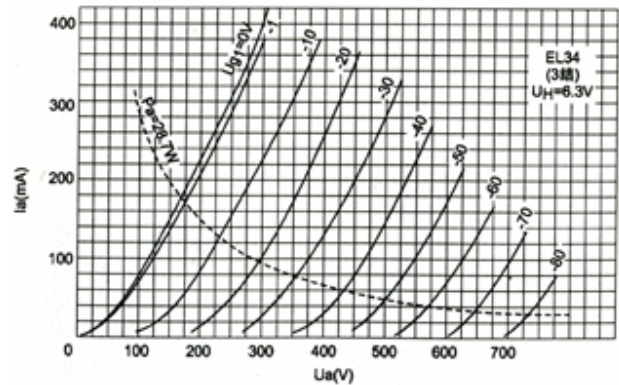
First grid heater capacitance..... 1.0pF  
Filament capacitance..... 10pF

**DC Parameters**

Ua..... 250 V  
Ug2.....250 V  
Ug3..... 0 V  
-Ug1.....12.2 V  
Ia..... 100mA  
Gm..... 11mA/V  
ri..... 15 kΩ  
ug1-g2.....11



电极与引线连接图





## Shuguang Vacuum Tube EL156

### **Pentode: EL156**

*Compatible with: KT series and 6550*

### **DESCRIPTION**

Power output pentode EL156A is glass crust eight GT, its anti-cathode limits power dissipation of 50W. For output stage amplification, it is used as class A and AB amplifier. It is the upgrade version of KT series and 6550.



**SPECIFICATION**

**Filament Heating**

UH .....6.3 V  
 IH.....1.9 A

**Maximum Ratings**

Plate voltage.....800 V  
 Second grid voltage.....450 V  
 Plate power dissipation.....50 W  
 Second grid power dissipation.....8 W  
 Cathode current.....180 mA  
 Voltage between filament and cathode  
 For fixed-biasing.....0.1 MΩ  
 For self-biasing.....0.1 MΩ

**Capacitances**

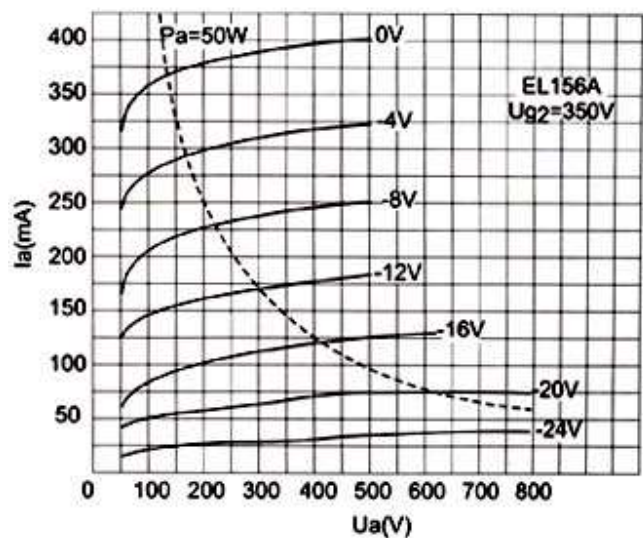
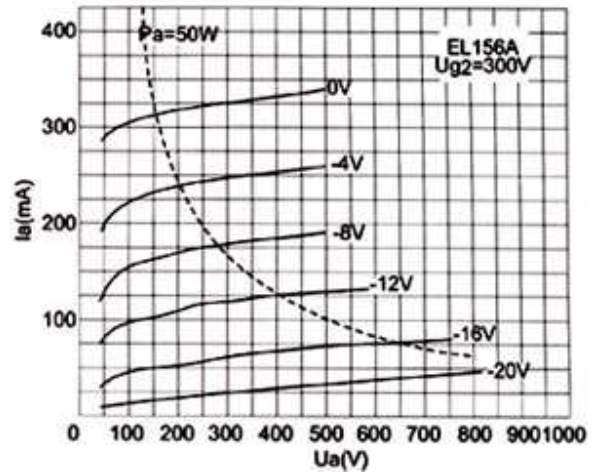
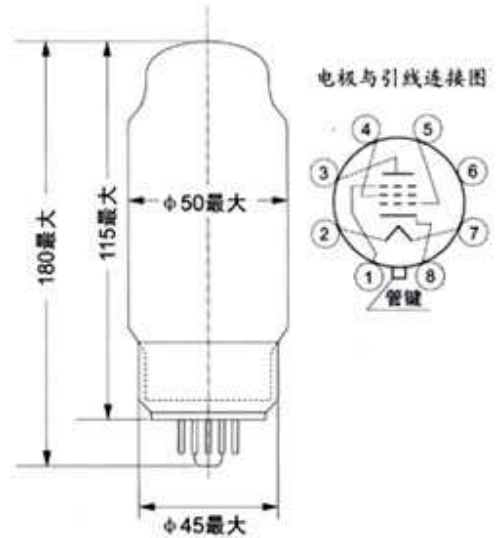
Input capacitance.....19pF  
 Output capacitance.....7.5pF  
 Muller capacitance.....0.5pF  
 capacitance between first grid and heater..0.25pF

**DC Parameters**

Ua.....440 V  
 Ug2.....350 V  
 Rk.....150 Ω  
 Ia.....10 mA  
 Ig2.....16mA  
 Gm.....11mA/V  
 ug1-g2.....6.2

**Recommended Operating Condition(suggested value)**

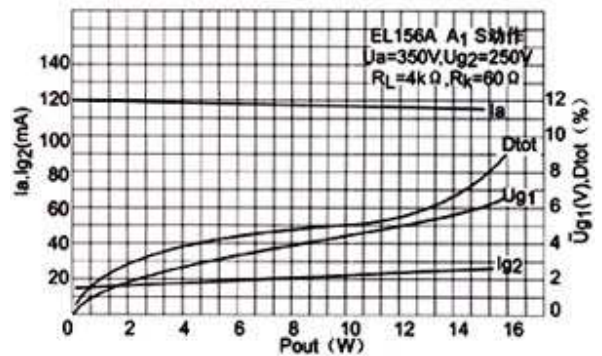
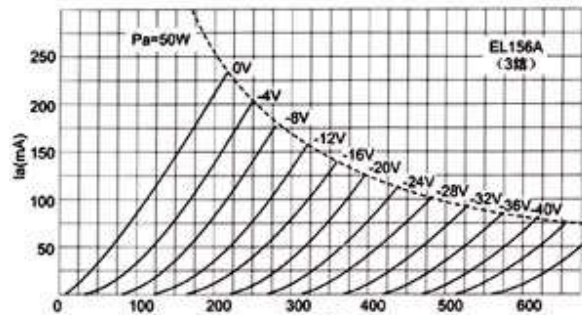
For Single-tube class A amplification  
 Ua(0).....300 450 V  
 Ug2.....250 250 V  
 Rk.....60 90Ω  
 Ia(0).....120 112 mA  
 Ia(max.sig).....116 108 mA  
 Ig2.....15 17 mA  
 Ig2(max.sig) .....24 27 mA  
 RL.....4 3.8 kΩ  
 üg1.....6 9.2 V  
 Pout.....15 25 W  
 Dtot.....8 9 %





For Push pull AB1 amplification(self-bias)

|                    |             |
|--------------------|-------------|
| Ua(b).....         | 600 600 V   |
| Ug2.....           | 300 350 V   |
| Rk.....            | 160 200 Ω ? |
| Ia(0).....         | 80 80 mA    |
| Ia(max.sig).....   | 95 100 mA   |
| Ig2 .....          | 10 10.5 mA  |
| Ig2(max.sig) ..... | 18 20 mA    |
| üg1.....           | 13.5 18.5 V |
| RL(a-a).....       | 8.5 7.6 kΩ  |
| Pout.....          | 65 80 W     |
| Dtot.....          | 4 4 %       |



## Emitter Tube

- 572B
- 805
- 807
- 811
- 845B

## Shuguang Vacuum Tube 572B

### Emitter Tube: 572B

#### DESCRIPTION

Direct heating cathode, high gain triode 572B can be used in wireless equipment for power amplification.



572B

**SPECIFICATION**

**Filament Heating**

U<sub>f</sub> .....6.3 V  
 I<sub>f</sub>.....4 A

**Maximum Ratings**

Plate voltage.....1250 V  
 Plate current (max. amplitude).....210 mA  
 Plate power dissipation.....125 W  
 Grid current.....50 mA

**Capacitance**

Input capacitance.....6pF  
 Output capacitance.....0.9pF

Muller capacitance.....5.9pF

**DC Parameters**

U<sub>a</sub>.....2000 V  
 -U<sub>g</sub>.....2 V  
 I<sub>a</sub>.....32 mA  
 u(when I<sub>a</sub>=20mA) .....190  
 R<sub>L</sub>.....7 k?  
 P<sub>out</sub>.....7 W

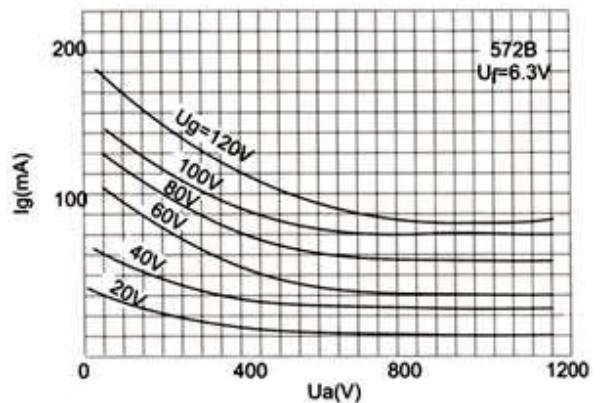
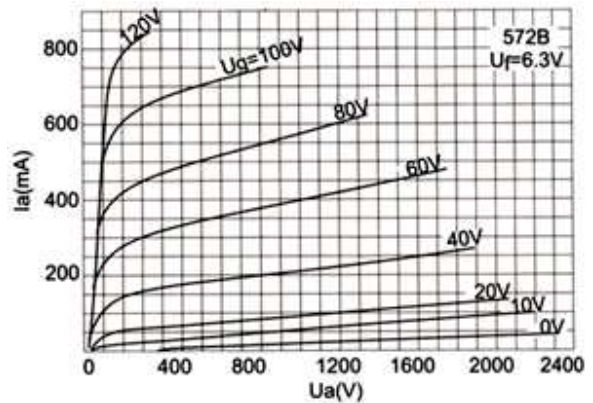
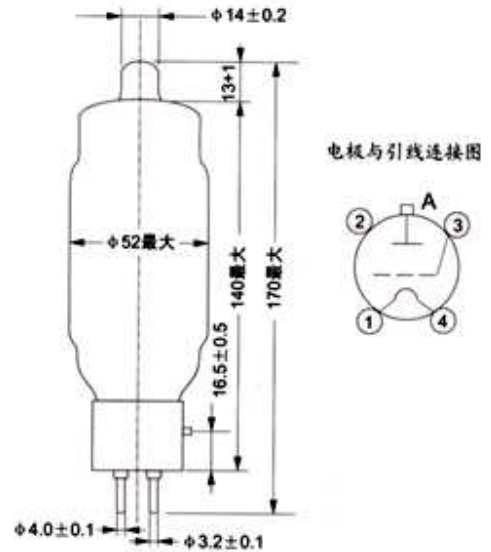
**Recommended Operating Condition** (suggested value)

Single tube class A amplification (single end)

U<sub>a</sub>.....750 V  
 U<sub>g</sub>.....30 V  
 I<sub>a</sub>(0).....130 mA  
 I<sub>a</sub>(max.sig).....210 mA  
 R<sub>L</sub>.....5 kΩ  
 P<sub>out</sub>(when D<sub>tot</sub>=5%).....40 W

Class AB amplifying

U<sub>a</sub>.....1000 V  
 U<sub>g</sub>.....20 V  
 I<sub>a</sub>(0).....75 mA  
 I<sub>a</sub>(max.sig).....300 mA  
 ü(g-g.pk).....195 V<sub>p-p</sub>  
 R<sub>L</sub>.....8 kΩ  
 P<sub>out</sub>(when D<sub>tot</sub>=5%).....150 W



# Shuguang Vacuum Tube 805

## Emitter Tube: 805 (FU-5)

*Compatible with: GL-805*

### DESCRIPTION

Direct heating thorium-tungsten cathode triodes 805, it can be used as class B, C, A-F and R-F power amplification in high frequency operation. 805 is compatible with GL-805, and can be substituted with each other.



**SPECIFICATION**

**Filament Heating**

U<sub>f</sub> .....10 V  
 I<sub>f</sub>.....3.25 A

**Maximum Ratings**

Plate voltage.....1500 V  
 Plate power dissipation.....125 W

**Capacitance**

Input capacitance.....8.5pF  
 Output capacitance.....10.5pF  
 Muller capacitance.....6.5pF

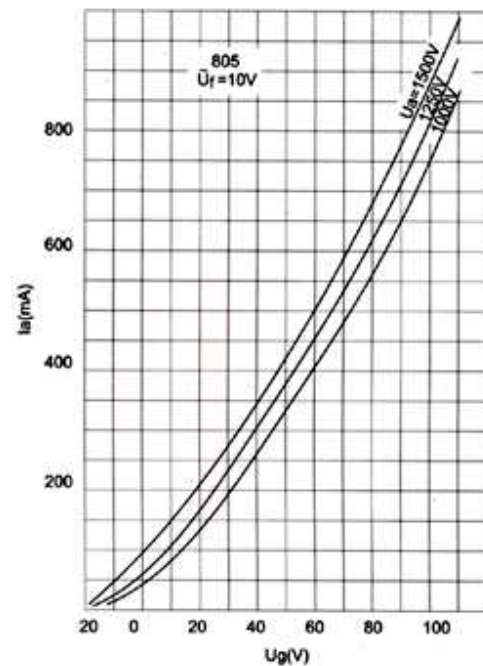
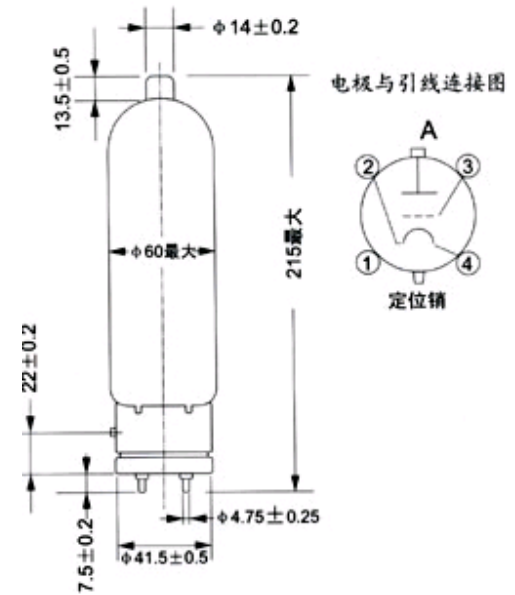
**Recommended Operating Condition** (suggested value)

Class B A-F power amplification (two tubes) maximum ratings

U<sub>a</sub>.....1250 1500 1500 V  
 I<sub>a</sub>(max.sig.per tube).....210 mA  
 P<sub>a</sub>(in)(max.sig.per tube) z.....315 W  
 P<sub>a</sub> (per tube) .....125 W  
 U<sub>g</sub>.....-16 V  
 ü<sub>g</sub>(pk).....235 280 V  
 I<sub>a</sub>(0).....148 84 mA  
 I<sub>a</sub>(max.sig).....500 600 mA  
 P<sub>d</sub>.....6 7 W  
 R<sub>L</sub>(a-a).....6.7 8.2 kΩ  
 P<sub>out</sub>(max.sig).....300 370 W

Class B R-F power amplification (maximum ratings)

U<sub>a</sub>.....1250 1500 1500 V  
 U<sub>g</sub>.....-10 V  
 I<sub>a</sub>.....135 115 150 mA  
 P<sub>a</sub>(in).....185 W  
 ü<sub>g</sub>(pk).....70 70 V  
 I<sub>g</sub>.....15 15 mA  
 P<sub>d</sub>.....11 7.5 W  
 P<sub>out</sub>.....55 57.5 W



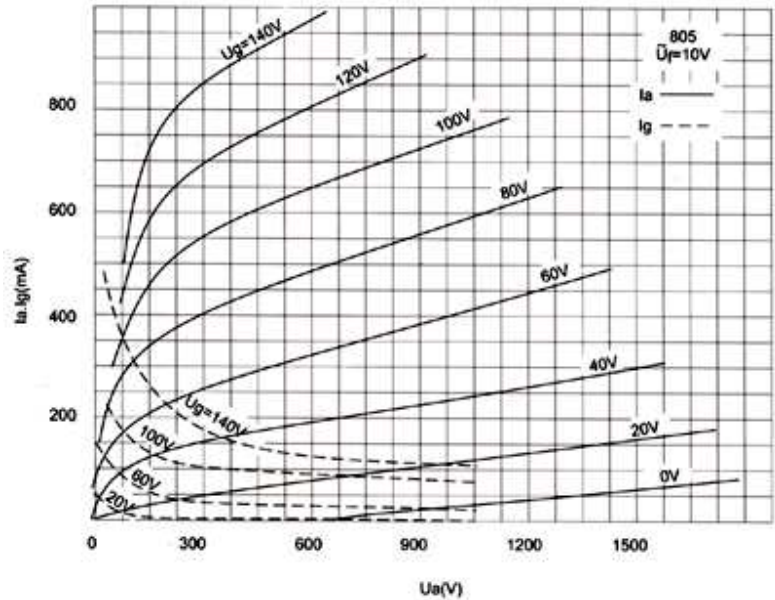


Class C R-F power amplification and oscillation (plate tuning with tube tuning)

$U_a$ .....1000 1250 1250 V  
 $U_g$ .....-155 -160 -500 V  
 $I_a$ .....160 160 175 mA  
 $I_g$ .....60 60 70 mA  
 $P_{a(in)}$ .....220 W  
 $P_a$ .....85 W  
 $\ddot{u}_g(pk)$ .....295 300 V  
 $P_d$ .....16 16 W  
 $P_{out}$ .....110 140 W

Class C R-F power amplification and oscillation (plate tuning without tuning)

$U_a$ .....1000 1250 1500 1500 V  
 $U_g$ .....-95 -100 -105 -500 V  
 $I_a$ .....200 200 200 210 mA  
 $I_g$ .....40 40 40 70 mA  
 $P_{a(in)}$ .....315 W  
 $P_a$ .....125 W  
 $\ddot{u}_g(pk)$ .....225 230 235 V  
 $P_d$ .....8.5 8.5 8.5 W  
 $P_{out}$ .....130 170 215 W



## Shuguang Vacuum Tube 807

### **Emitter Tube: FU-7J (807)**

*Compatible with: UY-807*

### **DESCRIPTION**

The plate power dissipation of beam power tube tetrode 807 can reach to 25W. It can be used as class A and AB in audio amplification. 807 and UY-807 are compatible and can be substituted with each other.



**SPECIFICATION**

**Filament Heating**

Uf .....6.3 V  
If.....0.9 A

**Maximum Ratings**

Plate voltage.....600 V  
Second grid plate voltage.....300V  
Plate power dissipation.....25 W  
Grid power dissipation.....3.5W  
Cathode current.....120mA  
Voltage between cathode and filament...±135 V  
Operating frequency.....60 MC

**Capacitance**

Input capacitance.....12pF  
Output capacitance.....7pF  
Muller capacitance.....0.2pF

**DC Parameters**

Ua.....300V  
Ug2.....250V  
-Ug.....12.5 V  
Ia.....83mA  
Ig2.....8mA  
ri.....24kΩ  
Gm.....6.5mA/V  
Pout.....6.5W  
Dtot.....6%

# Shuguang Vacuum Tube 811

## Emitter Tube: 811 (FU-811)

*Compatible with: UY-807*

### DESCRIPTION

Direct heating, thorium cathode, high gain triode 811 can be used in wireless equipment for power amplification.



**SPECIFICATION**

**Filament Heating**

Uf .....6.3V  
If.....4A

**Maximum Ratings**

Plate voltage.....1250V  
Plate power dissipation.....40W  
Plate current.....125mA  
Grid current.....50mA

**Capacitance**

Input capacitance.....5.5pF  
Output capacitance.....0.6pF  
Muller capacitance.....5.5pF

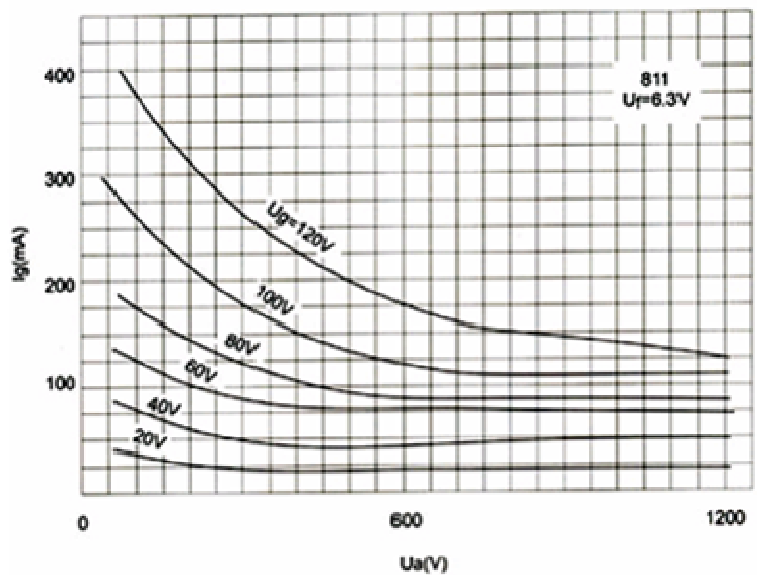
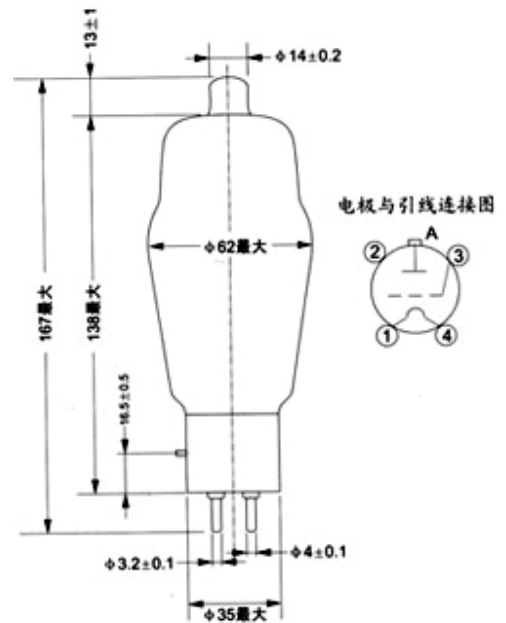
**DC Parameters**

Ua.....2000V  
-Ug.....2V  
Ia.....26mA  
u(when Ia=20mA)....160mA

**Recommended Operating Condition**

(suggested value)  
Class B A-F power amplification or modulation,  
for grid trigger, maximum ratings  
CCS ICAS

Ua.....1250 1500V  
Ia(max.sig).....175 175mA  
Pa .....45 65 W  
Pa(in)(max.sig).....165 235 W



For two tubes (suggested value)

|                    |              |
|--------------------|--------------|
|                    | CCS ICAS     |
| Ua.....            | 1250 1500V   |
| Ug.....            | 0 -4.5V      |
| Ia(0).....         | 50 32mA      |
| Ia(max.sig).....   | 260 313mA    |
| üg(pk).....        | 145 170 V    |
| Pd(max.sig).....   | 3.8 W 4.4W   |
| RL(a-a).....       | 12.4 12.4 kΩ |
| Pout(max.sig)..... | 235 340 W    |

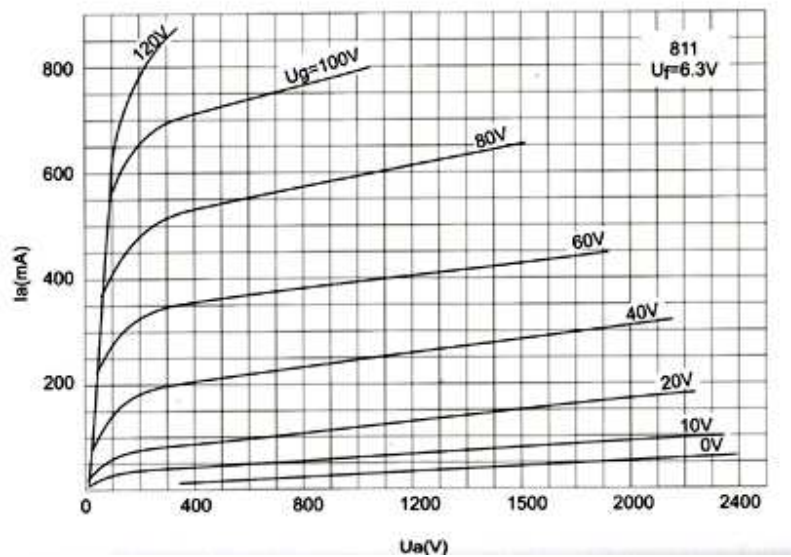
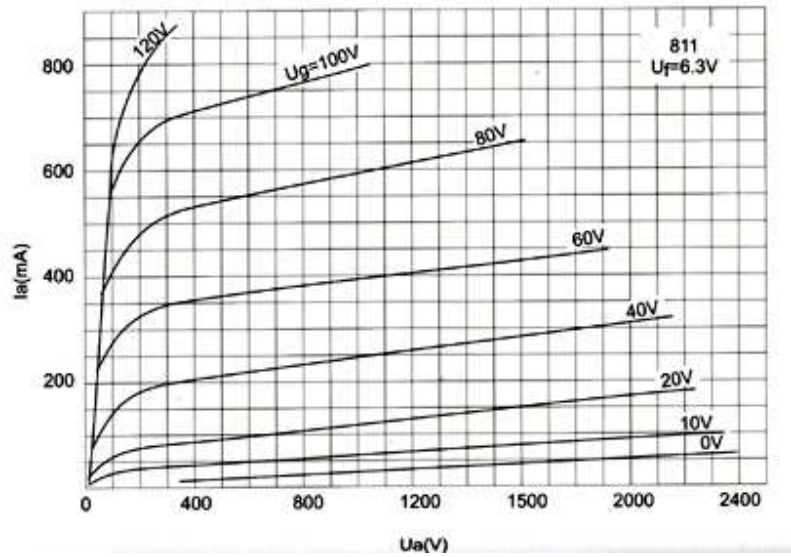
Class C R-F power amplification or oscillation, maximum ratings for other operating

|             |             |
|-------------|-------------|
|             | CCS ICAS    |
| Ua.....     | 1250 1500 V |
| Ia.....     | 175 175mA   |
| Pa.....     | 45 65 W     |
| Pa(in)..... | 175 260 W   |
| Ug.....     | -200 -200 V |
| Ig.....     | .55 50mA    |

Class C R-F amplification and plate amplification and modulation

|             |             |
|-------------|-------------|
|             | CCS ICAS    |
| Ua.....     | 1000 1250 V |
| Ia.....     | 125 150 mA  |
| Pa.....     | 30 45 W     |
| Pa(in)..... | 115 175 W   |
| Ug.....     | -200 -200 V |
| Ig.....     | .50 50 mA   |

CCS : continuous operating  
ICAS : Interrupt operating





# Shuguang Vacuum Tube 845

## Emitter Tube: 845B (845)

*Compatible with: UY-845*

### DESCRIPTION

Direct heating, thorium cathode made by Toshiba, high gain triode 845B can be used in class A and AB power amplification.

### FEATURES

- High purity of titanized graphite plate
- Maximum plate power dissipation can reach 100W



**SPECIFICATION**

**Filament Heating**

U<sub>f</sub> .....10V  
 I<sub>f</sub>.....2.5A

**Maximum Ratings**

Plate voltage.....1250 V  
 Plate current (max. amplitude).....120 mA  
 Plate power dissipation.....75 W  
 Input power (max. amplitude).....150W

**Capacitance**

Input capacitance.....6pF  
 Output capacitance.....4.5pF  
 Muller capacitance.....14.5pF

**DC Parameters**

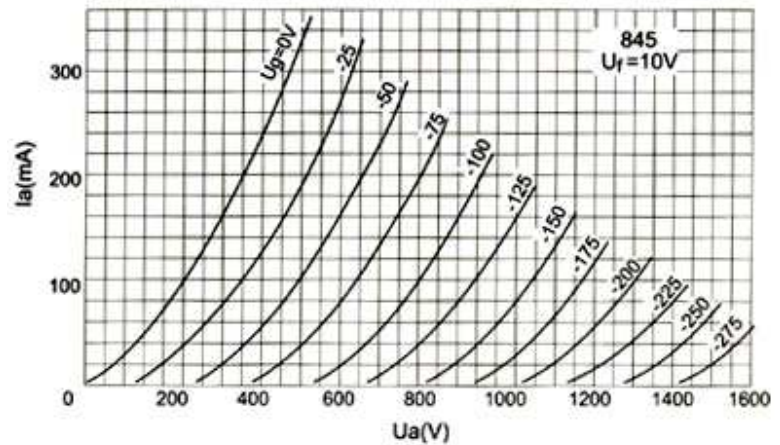
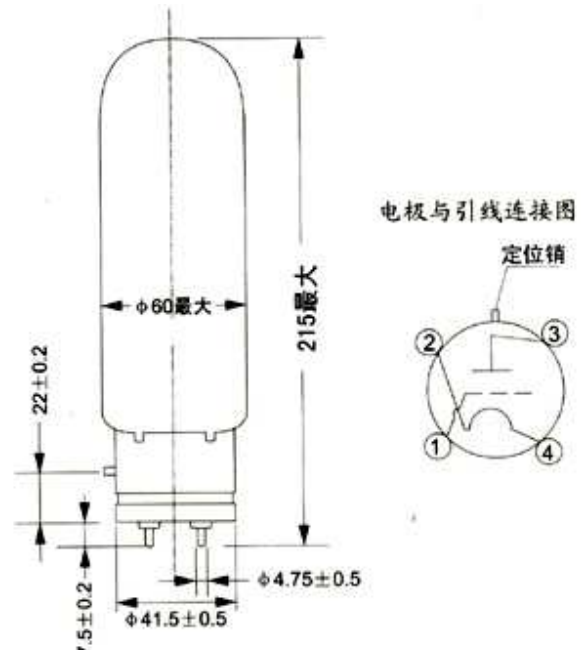
U<sub>a</sub>.....1250 V  
 -U<sub>g</sub>.....200 V  
 I<sub>a</sub>.....80 mA  
 G<sub>m</sub>.....3mA/V  
 r<sub>i</sub>.....1.7kΩ  
 u(when I<sub>a</sub>=20mA) .....5  
 R<sub>L</sub>.....3.4 kΩ  
 P<sub>out</sub>.....15W

**Recommended Operating Condition**  
 (suggested value)

U<sub>a</sub>.....1000 1000 1250 V  
 -U<sub>g</sub> .....145 155 209 V  
 R<sub>L</sub>.....6 9 16 kΩ  
 I<sub>a</sub>.....90 65 52 Ma  
 ü<sub>g</sub>(pk).....- 110 148 V  
 r<sub>i</sub>.....1.7 1.9 2.1 kΩ  
 G<sub>m</sub>.....3.1 - - mA/V  
 P<sub>out</sub>.....24 21 24 W  
 D<sub>tot</sub>......5 - - %

**Class AB amplifying**

U<sub>a</sub>.....800 1000 1000 1250 V  
 -U<sub>g</sub>.....125 170 175 225 V  
 R<sub>L</sub>.....4.5 4.6 4.6 6.6 kΩ  
 I<sub>a</sub>.....80 70 40 40 mA  
 ü<sub>g</sub>(pk).....177 240 - - V



## Analog Metric Limited

Email: [sales@analogmetric.com](mailto:sales@analogmetric.com)

Ia(max.sig).....170 230 230 240 mA  
Pout.....40 75 75 115 W

## Rectifier

- **274B**
- **5Z3P**

# Shuguang Vacuum Tube 274B

## Rectifier: 274B

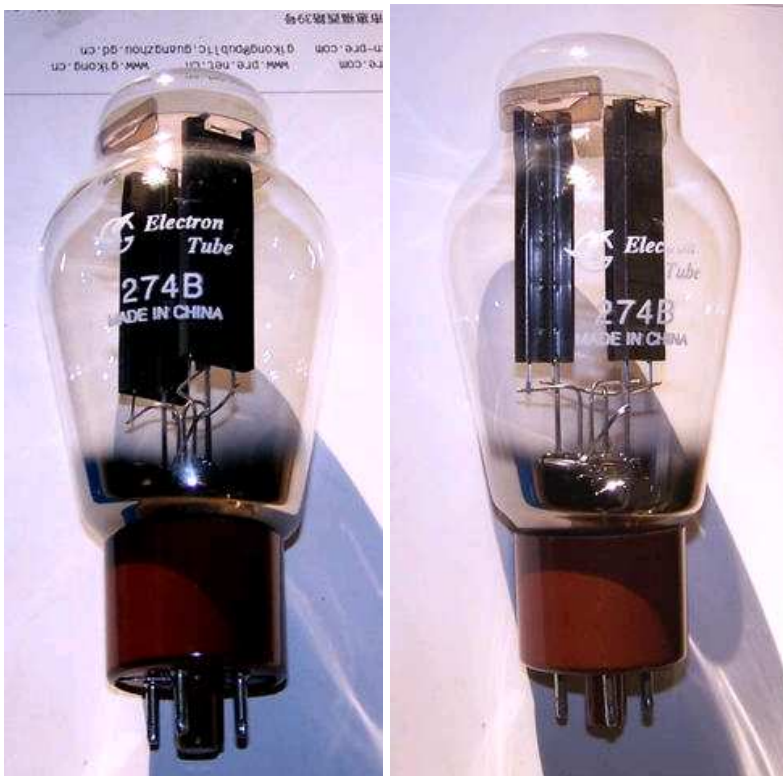
*Compatible with: 5Z3P and 5Z3PA*

## DESCRIPTION

High performance rectifying tube can be used in power regulation.

## FEATURES

- 100 times evacuated than 5U4G
- Maximum reversed voltage higher than 850V
- Output current can reach 150mA
- No ignition effect when using in high voltage application



## Shuguang Vacuum Tube 5Z3P

**Rectifier: 5Z3PAT(5Z3P)**

*Compatible with: 5U4G and CV841*

### DESCRIPTION

High performance rectifying tube can be used in power regulation.





## Compactron

- **12AX7B (12AX7)**
- **12AU7**
- **12AT7**
- **6N1**
- **6N2**

## Shuguang Vacuum Tube 12AX7 Series

### **Compactron: 12AX7B (12AX7)**

*Compatible with: 12AX7A, 7025 and ECC83*

#### **DESCRIPTION**

High gain, small 9 GT, dual triodes, amplifying the voltage and providing driving power for amplification circuitry. 12AXB is improved version of 12AX7 and compatible with 12AX7A and ECC83 in function, electric parameters, and it is the superior in low noise.



**SPECIFICATION**

**Filament Heating**

UH..... 6.3(paralleling) 12.6(serial) V  
 IH..... 300 150mA

**Maximum Ratings**(each triode)

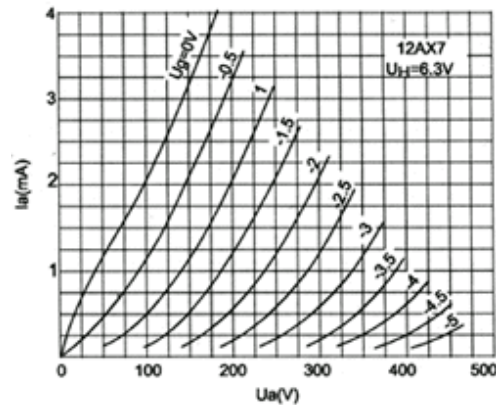
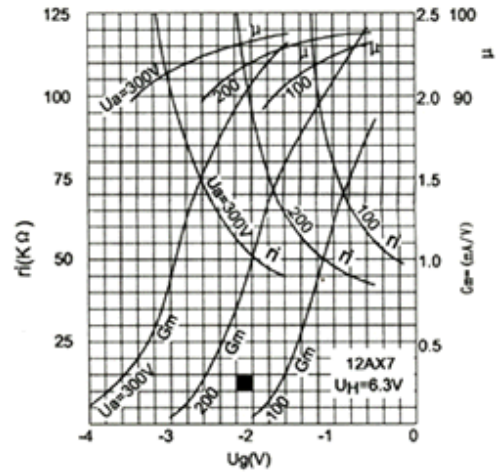
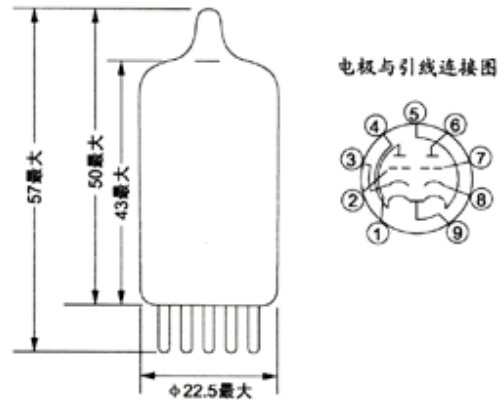
For class A amplification  
 Plate voltage..... 330V  
 Grid negative voltage..... -50V  
 Grid positive voltage..... 0V  
 Plate power dissipation..... 1.2W  
 heater voltage between cathodes..... ±180V

**Capacitance**

Input capacitance.....1.6pF 1.6pF  
 Output capacitance.....0.46pF 0.34pF  
 Muller capacitance.....1.7pF 1.7pF

**DC Parameters**

Ua..... 100 250 V  
 Ug..... -1 -2 V  
 Ia..... 0.5 1.2 mA  
 Gm..... 1.25 1.6 mA/V  
 Rk..... 270 200Ω  
 u ..... 100 100  
 Ri..... 80 62.5 kΩ



## Shuguang Vacuum Tube 12AT7

### **Compactron: 12AT7**

*Compatible with: GT-12AT7, 6201 and ECC81*

### **DESCRIPTION**

High gain, double triodes, three terminals, small 9 GT socket pin, amplifying the voltage and providing driving power when working in amplifying circuit. 12AT7 is compatible with ECC81, 6201 and GT-12AT7, and they can be replaced each other.



**SPECIFICATION**

**Filament Heating**

UH..... 6.3(paralleling) 12.6(serial) V  
 IH..... 300 150mA

**Maximum Ratings**(each triode)

For class A amplification

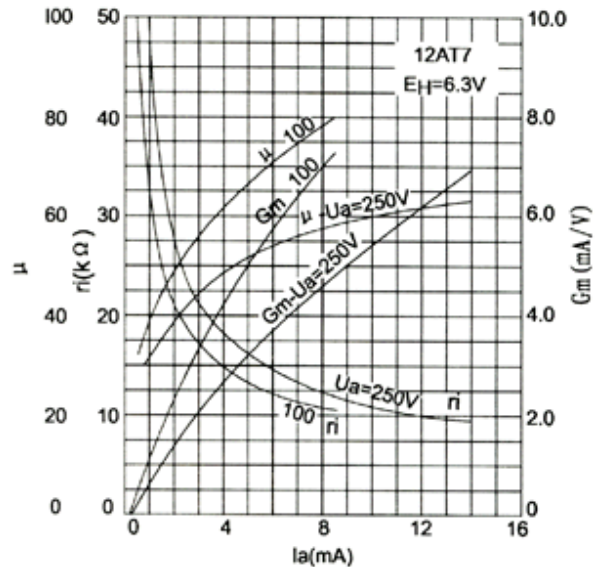
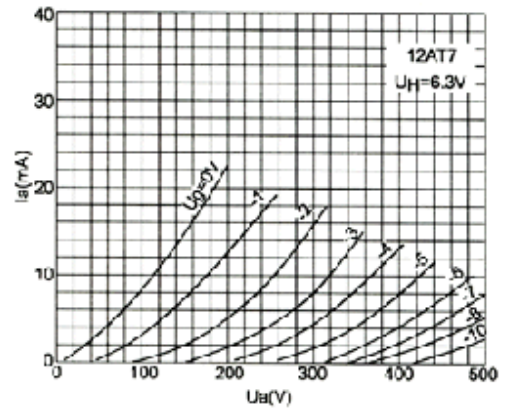
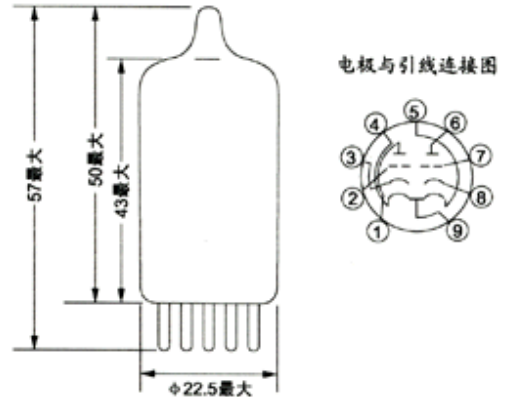
Plate voltage..... 330V  
 Grid negative voltage..... -50V  
 Grid positive voltage..... 0V  
 Plate power dissipation..... 2.5W  
 heater voltage between cathodes..... ±90V

**Capacitance**

Grid-Grid capacitance.....0.005pF  
 Plate-plate capacitance.....0.4pF  
 Grid-plate capacitance.....1.5pF  
 Grid & cathode - filament capacitance.....2.2pF  
 Plate & cathode - filament capacitance.....0.5pF  
 Filament-cathode capacitance.....2.4pF  
 Plate-cathode capacitance.....0.2pF  
 Cathode & filament-grid capacitance.....1.8pF  
 Plate & filament- grid capacitance.....4.6pF

**DC Parameters**

Ua..... 100 250 V  
 Ug..... -5 -12 V  
 Ia..... 3.7 10 mA  
 Gm..... 4 5.5 mA/V  
 Rk..... 270 200Ω  
 u ..... 60 60  
 Ri..... 15 10.9 kΩ



# Shuguang Vacuum Tube 12AU7

## Compactron: 12AU7

*Compatible with: 5814, 6189 and ECC82*

### DESCRIPTION

Medium gain, double triodes, three terminals, small 9 GT footpin, amplifying the voltage and providing driving power when working in amplifying circuit. 12AU7 is compatible with ECC82 and 6189, and they can be replaced each other.





**SPECIFICATION**

**Filament Heating**

UH..... 6.3(paralleling) 12.6(serial) V  
 IH..... 300 150mA

**Maximum Ratings**(each triode)

For class A amplification

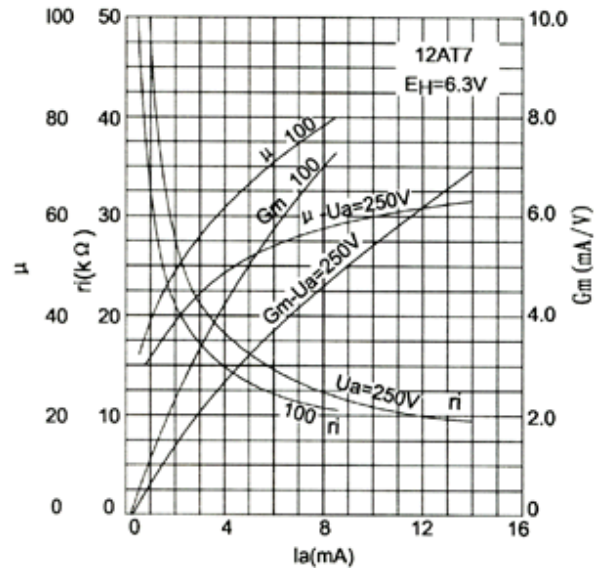
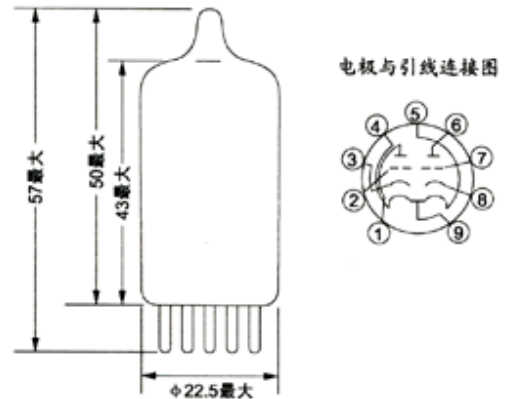
Plate voltage..... 300V  
 Plate current.....20mA  
 Grid voltage..... -50V  
 Plate power dissipation..... 2.5W  
 heater voltage between cathodes..... ±200V

**Capacitance**

Input capacitance.....1.6pF 1.6pF  
 Output capacitance.....0.46pF 0.32pF  
 Muller capacitance.....1.5pF 1.5pF

**DC Parameters**

Ua..... 100 250 V  
 Ug..... 0 -8.5 V  
 Ia..... 11.8 10.5 mA  
 Gm..... 3.1 2.2 mA/V  
 Rk..... 270 200Ω  
 u ..... 20 17  
 Ri (approx.)..... 6.5 7.7 kΩ  
 Ug (approx.) for Ia=10uA.....-11.8 -10.5V



# Shuguang Vacuum Tube 6N1

## Compactron: 6N1

Compatible with: 6922 and 6DJ8

### DESCRIPTION

6N1 is high gain dual triodes for voltage amplification.



# Shuguang Vacuum Tube 6N2

## Compactron: 6N2

### DESCRIPTION

6N2 is high gain dual triodes for voltage amplification.

