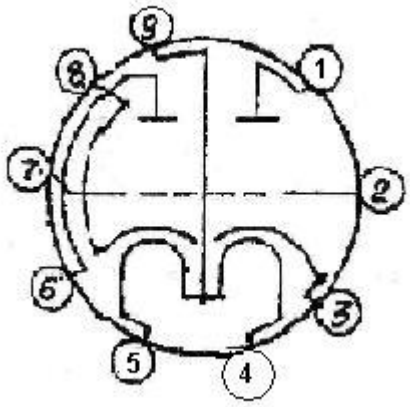
# 12AX7WA, 12AX7WB

Miniature dual triode




| pin # | Electrode name |
|---|---|
| 1 | Plate of 2nd triode |
| 2 | Grid of 2nd triode |
| 3 | Cathode of 2nd triode |
| 4,5,9 | Heater |
| 6 | Plate of 1st triode |
| 7 | Grid of 1st triode |
| 8 | Cathode of 1st triode |

Electrical data of new tube

| | | 12AX7WA | 12AX7WB | Comment |
|---|---|---|---|---|
| Grid reverse current, uA, not more | | 0.2 | 0.2 | 3, 4 |
| Heater current, mA | not less | 305 | 305 | 1 |
| | | 153 | 153 | 2 |
| | not more | 375 | 375 | 1 |
| | | 188 | 188 | 2 |
| Plate current, mA | not less | 1.5 | 1.2 | 3, 5 |
| Plate current at the beginning of the curve, uA | not more | 10 | 10 | 3, 6 |
| Transconductance, mA/V, | not less | 1.4 | 1.4 | 3, 5 |
| | not more | 2.65 | 2.65 | |
| Amplification factor, | not less | 85 | 95 | 3, 5 |
| | not more | 110 | 110 | |

Comments:
1. Plate voltage 6.3v
2. Heater voltage 12.6v
3. Heater voltage 6.3v or 12.6v
4. Plate voltage 250v, grid voltage -1.5v, grid circuit resistance 1 KOhm
5. Plate voltage 250v, grid voltage -1.5v
6. Plate voltage 250v, grid voltage -5.5v.

Electrical parameters that could be changed within exploitation

| | |
|---|---|
| Transconductance, ma/v, not less | 1.0 |
| Grid reverse current, ua, not more | 2.0 |

Limited values

| | 12AX7WA, 12AX7WB |
|---|---|
| Heater voltage, V, not less | 6.0 or 12.0 |
| not less | 6.6 or 13.2 |
| Plate voltage, V, not more | 300 |
| Cathode to heater voltage: | |
| Positive, V, not more | 100 |
| Negative, V not more | 100 |
| Plate current, mA not more | 10 |
| Plate dissipation power of each triode, W, not more | 1.0 |
| Each triode grid circuit resistance, Moh, not more | 1.0 |
| Plate voltage of cold tube, V, not more | 600 |
| Max grid reverse current, V, not more | 55 |
| Balloon temperature at hottest point, C° | 95 |

The tube can't be exploited at two or more limited conditions.

Interelectrode capacitances:

| | 12AX7WA, 12AX7WB |
|---|---|
| Input capacitance of each triode, nf, nominal | 2.15 |
| Transfer capacitance of each triode, nf, nominal | 0.55 |
| Output capacitance of each triode, nf, nominal | 1.9 |
| Plate to plate capacitance, nf, nominal | 0.4 |