

12AT7EH

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

Electrical data of new tube

| | | Comment |
|---|------|---------|
| Grid reverse current, μa , not more | 0.5 | 3, 4 |
| Heater current, ma not less | 330 | 1 |
| | 165 | 2 |
| not more | 360 | 1 |
| | 180 | 2 |
| Plate current, ma not less | 7.0 | 3, 5 |
| not more | 13.0 | |
| Plate current at the beginning of the curve, μa not more | 10 | 3, 6 |
| Transconductance, ma/v, not less | 4.5 | 3, 5 |
| Amplification factor, not less | 50 | 3.5 |

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 -2v, grid circuit resistance 0,25 Mohm
5. Plate voltage 250v, grid voltage -2v
6. Plate voltage 250v, grid voltage -12v

Electrical parameters that could be changed within exploitation

| | |
|--|-----|
| Transconductance, ma/v, not less | 3.5 |
| Grid reverse current, μa , not more | 0.7 |

Limited values

| | |
|---|-------------|
| Heater voltage, v, not less | 6.0 or 12.0 |
| not more | 6.6 or 13.2 |
| Plate voltage, v, not more | 330 |
| Cathode to heater voltage: | |
| Positive, v, not more | 200 |
| Negative, v not more | 200 |
| Plate current, ma not more | 18 |
| Plate dissipation power of each triode, W, not more | 3.25 |
| Each triode grid circuit resistance: | |
| under fixed bias, Mohm, not more | 0.25 |
| under automatic bias, Mohm not more | 1.0 |
| Max grid reverse current, v, not more | 55 |

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

Interelectrode capacitances:

| | |
|--|-----|
| Input capacitance of each triode, pf, nominal | 2.5 |
| Output capacitance of each triode, pf, nominal | 0.4 |
| Transfer capacitance of each triode, pf, nominal | 1.6 |