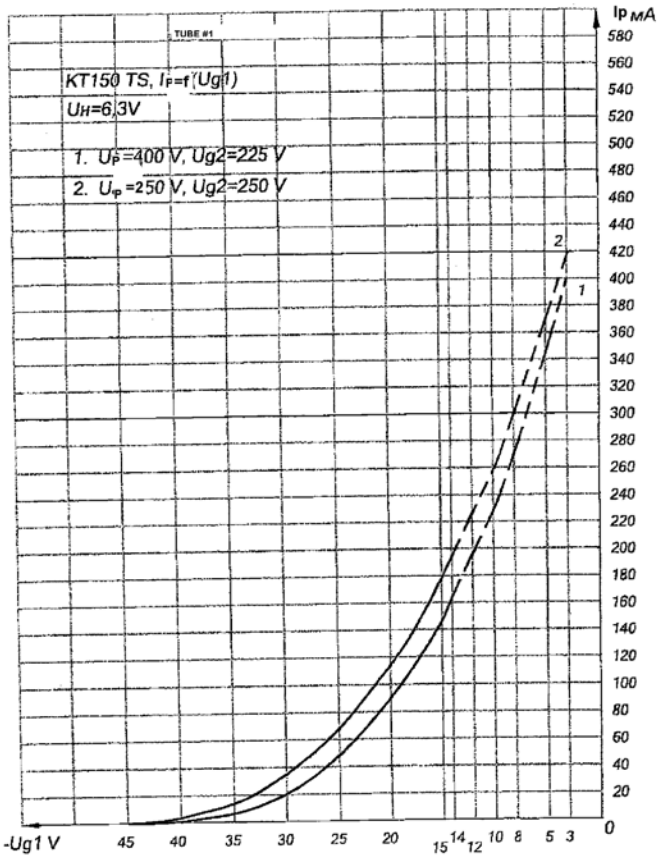
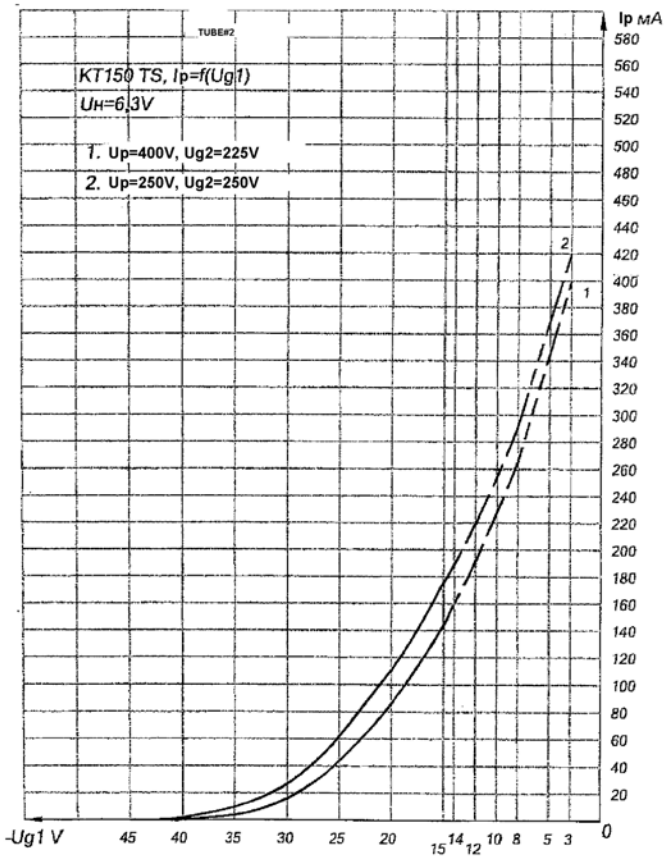
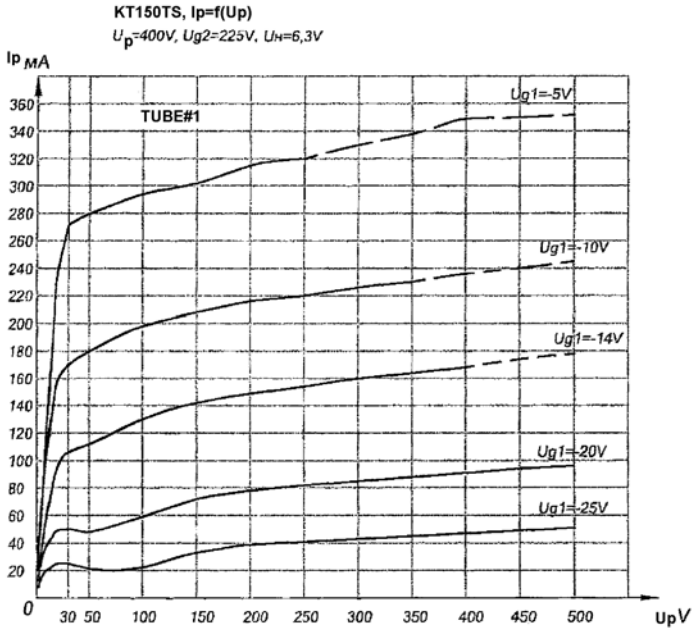
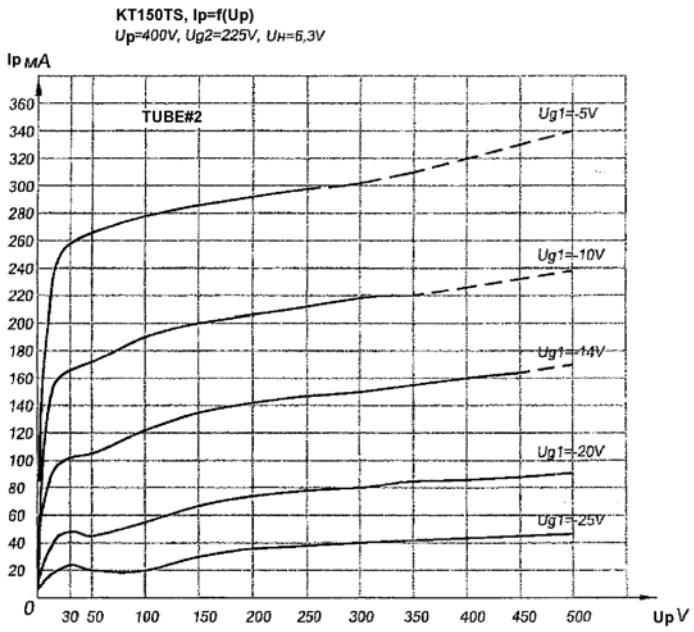
Electro-Harmonix, 55-01 2nd Street, Long Island City, NY 11101
tel: 718-937-8300 800-633-5477 fax: 718-937-9222
www.newsensor.com www.ehx.com

**Grid-plate characteristics**



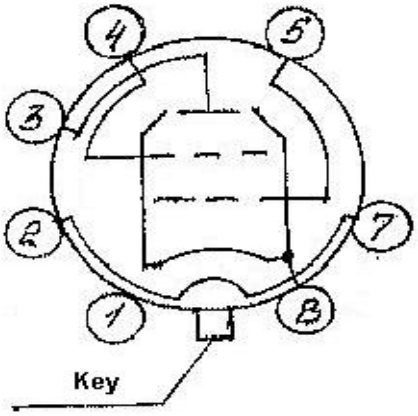
# KT 150 VACUUM TUBE



| | KT150TS | KT120TS |
|---|---|---|
| Heater Current | 1,75 - 2,0A | 1,7 - 1,95 A |
| Least Output Power, BT | 20 W | 18 W |
| Plate current | 150 thru 180 mA | 125 thru 165 mA |
| Grid 2 current | not more than | not more than 14 mA |
| Transconductance (slope) | not less than 12,6 mA/V | not less than 11,5 mA/V |
| Plate dissipation power | not more than 70 W | not more than 60 W |
| Grid 2 dissipation power | not more than 9 W | not more than 8 W |

# KT150 Tung-Sol

**Terminal connections**




| Pin # | Electrode name |
|---|---|
| 1 | - |
| 2,7 | Heater |
| 3 | Plate |
| 4 | The second grid |
| 5 | The first grid |
| 6 | - |
| 8 | Cathode,beam-forming plates |

Electrical data

| | |
|---|---|
| Cathode | Oxide, indirect heating |
| Filament voltage (AC, DC) | 6.3 V |
| Cathode to heater voltage: | |
| Under positive polarity at cathode | 300 V |
| Under negative polarity at cathode | 300V |
| Interelectrode capacitance: | |
| Input (nominal) | 20.5 pF |
| Output (nominal) | 10 pF |
| Transfer (nominal) | 1.75 pF |

Mechanical data

| | |
|---|---|
| Envelope | Glass balloon |
| Socket | Octal |
| Operating position | Any |
| Dimensions: | |
| Maximum height | 140 mm |
| Balloon diameter, max | 60 mm |
| Maximum weight | 130 g |

## Basic specifications

Electric Characteristics At delivery

| Parameter name | Norms | | Measurement mode |
|---|---|---|---|
| | not less | not more | |
| Heater current, A | 1.75 | 2.0 | Uf=6.3V |
| Plate current, mA | 150 | 180 | Uf=6.3V<br>Ua=400V |

| | | | |
|---|---|---|---|
| | | | Uc2=225V<br>Uc1= -14V |
| The second grid current, mA | - | 15 | Uf=6.3V<br>Ua=400V<br>Uc2=225V<br>Uc1= -14V |
| Transconductance, mA/V | 12.6 | - | Uf=6.3V<br>Ua=400V<br>Uc2=225V<br>Uc1= -14V |
| Output power, W | 20.0 | - | Uf=6.3V<br>Ua=400V<br>Uc2=225V<br>Uc1= -14V<br>Uc1eff.=9.9V<br>load resistance =3 KOhm |
| Non-linear harmonic distortion coefficient, % | - | 14 | Uf=6.3V<br>Ua=400V<br>Uc2=225V<br>Uc1= -14V<br>Uc1eff.=9.9V<br>load resistance =3 KOhm |
| Cathode to heater leakage current, µA | - | 50 | Uf=6.3V<br>Uk-h=±300V |

**Limiting values**

| | min | max |
|---|---|---|
| Filament voltage (AC, DC) | 6.0 V | 6.6 V |
| Plate voltage, DC | | 850 V |
| Grid 2 voltage, DC | | 650 V |
| Grid 1 negative voltage | | 200 V |
| Plate dissipation | | 70 W |
| Grid 2 dissipation | | 9.0 W |
| Cathode current | | 275 mA |
| Resistance in grid1 circuit | | |
| at fixed (clamp) bias | | 0.51 MOh |
| Envelope temperature at hottest point | | 250° C |