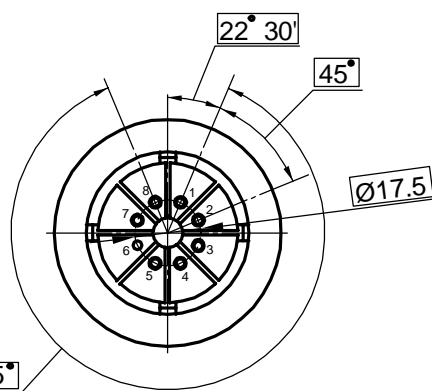
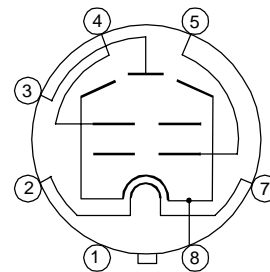


Vacuum tube KT88, 6550 Tung - Sol is a beam tetrode in the glass bulb with octal base, with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

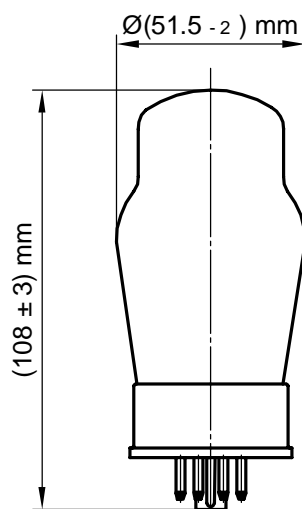
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



| Lead designation | Name of electrode            |
|------------------|------------------------------|
| 1                | Outer metal screen           |
| 2, 7             | Heater                       |
| 3                | Plate                        |
| 4                | Grid 2                       |
| 5                | Grid 1                       |
| 6                | No                           |
| 8                | Cathode, beam-forming screen |

# Electrical parameters

KT88, 6550 Tung - Sol

| Parameters, conditions and units                                                                                                                                                                                                | Nominal |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|
|                                                                                                                                                                                                                                 | min     | max  |
| First grid reverse current, $\mu\text{A}$ (at: filament voltage 6.3 V, plate voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V, first grid circuit resistance 0.051M $\Omega$ )                         | —       | 0.7  |
| Heater current, A                                                                                                                                                                                                               | 1.5     | 1.7  |
| Plate current, mA (at: filament voltage 6.3 V, plate voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V )                                                                                                | 75      | 125  |
| Second grid current, mA (at: filament voltage 6.3 V, plate voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V )                                                                                          | 2       | 9.5  |
| Output power, W (at: filament voltage 6.3 V, plate voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V, plate circuit resistance 3.0 k $\Omega$ first grid alternating voltage, efficacious 11.7 V )      | 14      | —    |
| First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 400 V, second grid voltage 225 V, )                                                                                                          | —       | 58   |
| Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V )                                                                                    | 8.2     | —    |
| Distortion factor, % (at: filament voltage 6.3 V, plate voltage 400 V, first grid voltage minus 16.5 V, second grid voltage 225 V, plate circuit resistance 3.0 k $\Omega$ first grid alternating voltage, efficacious 11.7 V ) | —       | 18.0 |
| Cahtode - heater insulation resistance, M $\Omega$ at: filament voltage 6.3 V, cathode -heater voltage + 300 V)                                                                                                                 | 10.0    | —    |

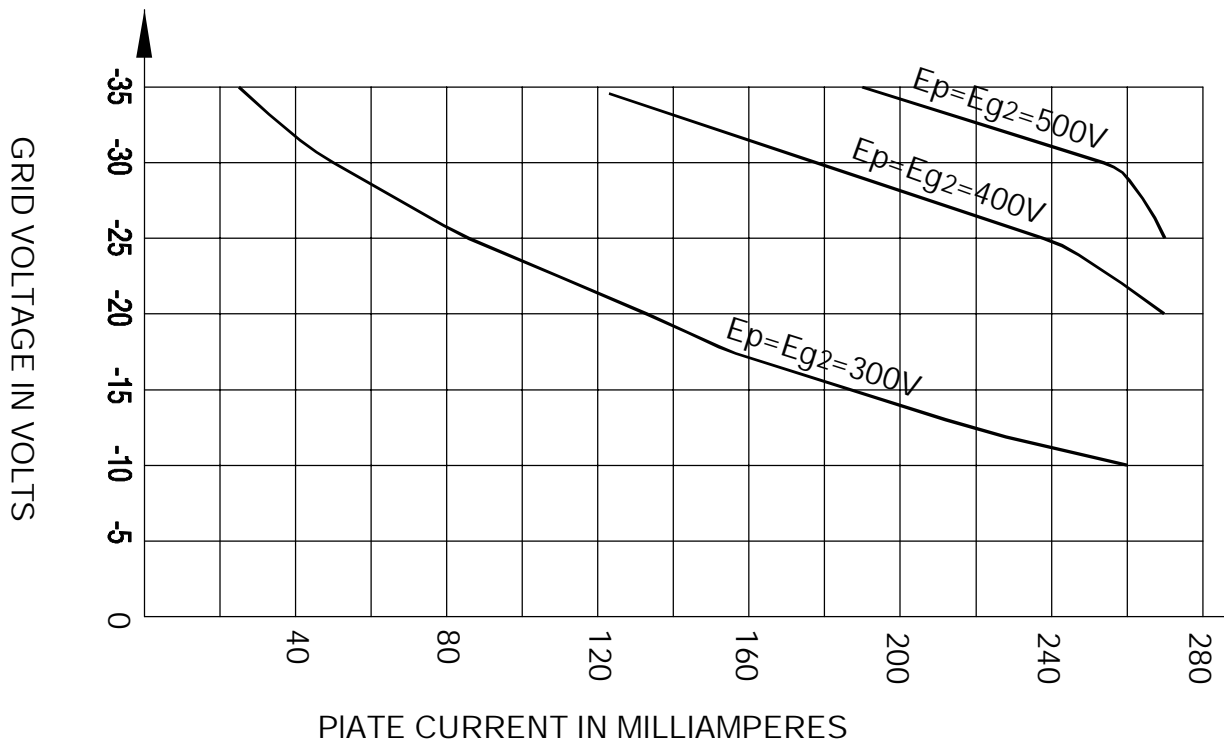
## Operating conditions limits

| Parameters, units                                                                                                       | Nominal           |                    |
|-------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|
|                                                                                                                         | triode connection | tetrode connection |
| Filament voltage, V, min                                                                                                | 5.7               | 5.7                |
| max                                                                                                                     | 6.9               | 6.9                |
| Cathode - heater voltage, pulse:                                                                                        |                   |                    |
| <b>positive polarity at the cathode (average level of the constant component <math>\leq 300\text{V}</math>), V, max</b> | 300               | 300                |
| <b>negative polarity at the cathode (average level of the constant component <math>\leq 100\text{V}</math>), V, max</b> | 200               | 200                |
| Cathode current, mA                                                                                                     | 230               | 192.5              |
| First grid voltage: negative, V, max                                                                                    | 300               | 300                |
| positive, V, max                                                                                                        | 0                 | 0                  |
| Power dissipation at the plate, W, max                                                                                  | 42                | 44                 |
| Power dissipation at the second grid, W, max                                                                            | 6.6               | 6.6                |
| First grid circuit resistance, M $\Omega$ , max                                                                         |                   |                    |
| fixed bias                                                                                                              | 0.051             | 0.051              |
| self - bias                                                                                                             | 0.1               | 0.1                |
| Temperature at the most heated part of the envelope, K $^{\circ}$                                                       | 523               | 523                |

$I_p = f(E_{g1})$

$E_f = 6.3V$

$I_p (mA)$



$I_p = f(E_p)$

$E_f = 6.3V, E_{g2} = 250V$

$I_p (mA)$

