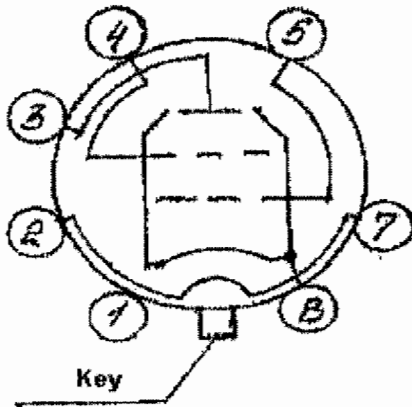


# KT120 Tung-Sol

## 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	200V
Interelectrode capacitance:	
Input (nominal)	29 pF
Output (nominal)	10 pF
Transfer (nominal)	1.8 pF

### Mechanical data

Envelope	Glass balloon
Socket	Octal
Operating position	Any
Dimensions:	
Maximum height	130 mm
Balloon diameter, max	52 mm
Maximum weight	120 g

### Basic specifications

#### Electric Characteristics At delivery

Parameter name	Norms		Measurement mode
	not less	not more	
Heater current, A	1.7	1.95	Uf=6.3V
Plate current, ma	135	165	Uf=6.3V Ua=400V

			Uc2=225V Uc1= -14V
The second grid current, mA	-	14	Uf=6.3V Ua=400V Uc2=225V Uc1= -14V
Transconductance, mA/v	12.5	-	Uf=6.3V Ua=400V Uc2=225V Uc1= -14V
Output power, W	20.0	-	Uf=6.3V Ua=400V Uc2=225V Uc1= -14V Uc1eff.=9.9V load resistance =3 KOhm
Non-linear harmonic distortion coefficient, %	-	14	Uf=6.3V Ua=400V Uc2=225V Uc1= -14V Uc1eff.=9.9V load resistance =3 KOhm
Cathode to heater leakage current, $\mu$ A	-	30	Uf=6.3V Uk-h= $\pm$ 300V

#### Limiting values

	triode scheme		tetrode scheme	
	min	max	min	max
Filament voltage (AC, DC)	5.7 v	6.9 v	5.7 v	6.9 v
Plate voltage, DC		650 v		850 v
Grid 2 voltage, DC		650 v		600 v
Grid 1 negative voltage		200 v		200 v
Plate dissipation		60 w		60 w
Grid 2 dissipation		8.0 w		8.0 w
Cathode current		230 mA		250 mA
Resistance in grid1 circuit				
at fixed (clamp) bias		0.051 MOh		0.051 MOh
at automatic bias		0.24 MOh		0.24 MOh
Envelope temperature at hottest point		250° C		250° C