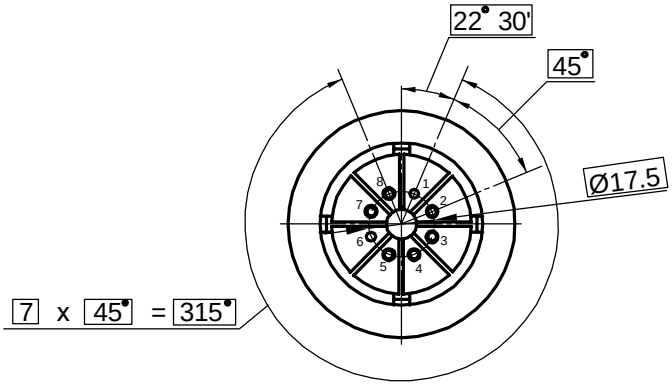
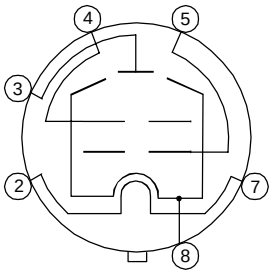
Vacuum tube 6L6G Tung - Sol is a beam tetrode in the glass bulb with octal base,with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

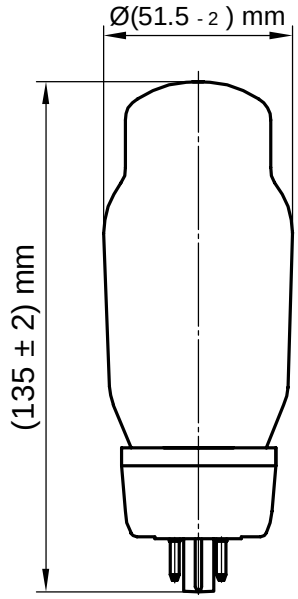
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



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

Electrical parameters

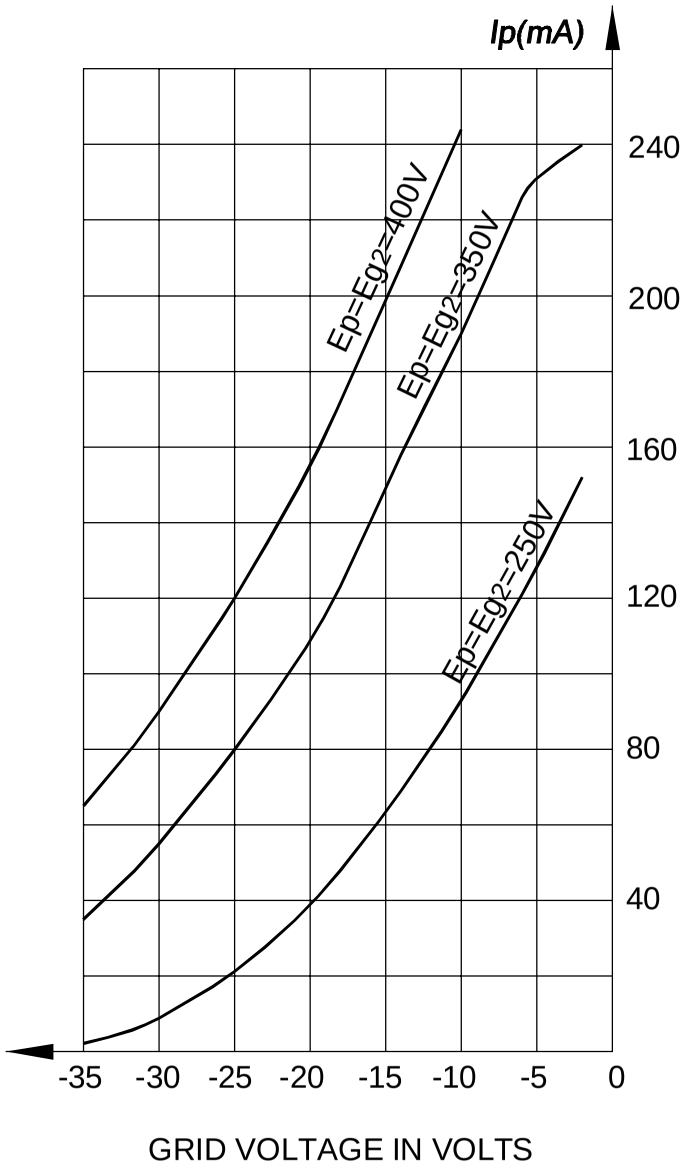
Parameters, conditions and units	Nominal	
	min	max
First grid reverse current, μA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V, first grid circuit resistance 0.1MΩ)	—	0.7
Heater current, A	0.845	1.06
Plate current, mA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	42	72
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	—	6.0
Output power, W (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V, plate circuit resistance 4.2 k Ω first grid alternating voltage, efficacious 12.7 V)	8	—
First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 350 V, second grid voltage 250 V,)	—	60
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	4.2	7.0
Distortion factor,%	—	15.0
Cahtode - heater insulation resistance, M Ω (at: filament voltage 6.3 V, cathode -heater voltage ± 100 V)	2.0	—

Maximum permissible operating conditions

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	6.9
Plate voltage, V	—	500
Second grid voltage, V	—	450
Cathode - heater voltage, V	—	± 200
Cathode current, mA	—	100
First grid voltage, negative, V	—	100
Power dissipation at the plate, W	—	30
Power dissipation at the second grin, W	—	5
First grid circuit resistance for each,M Ω fixed bias self - bias	 — —	 0.1 0.51
Temperature at the most heated part of the envelope, K°	—	523

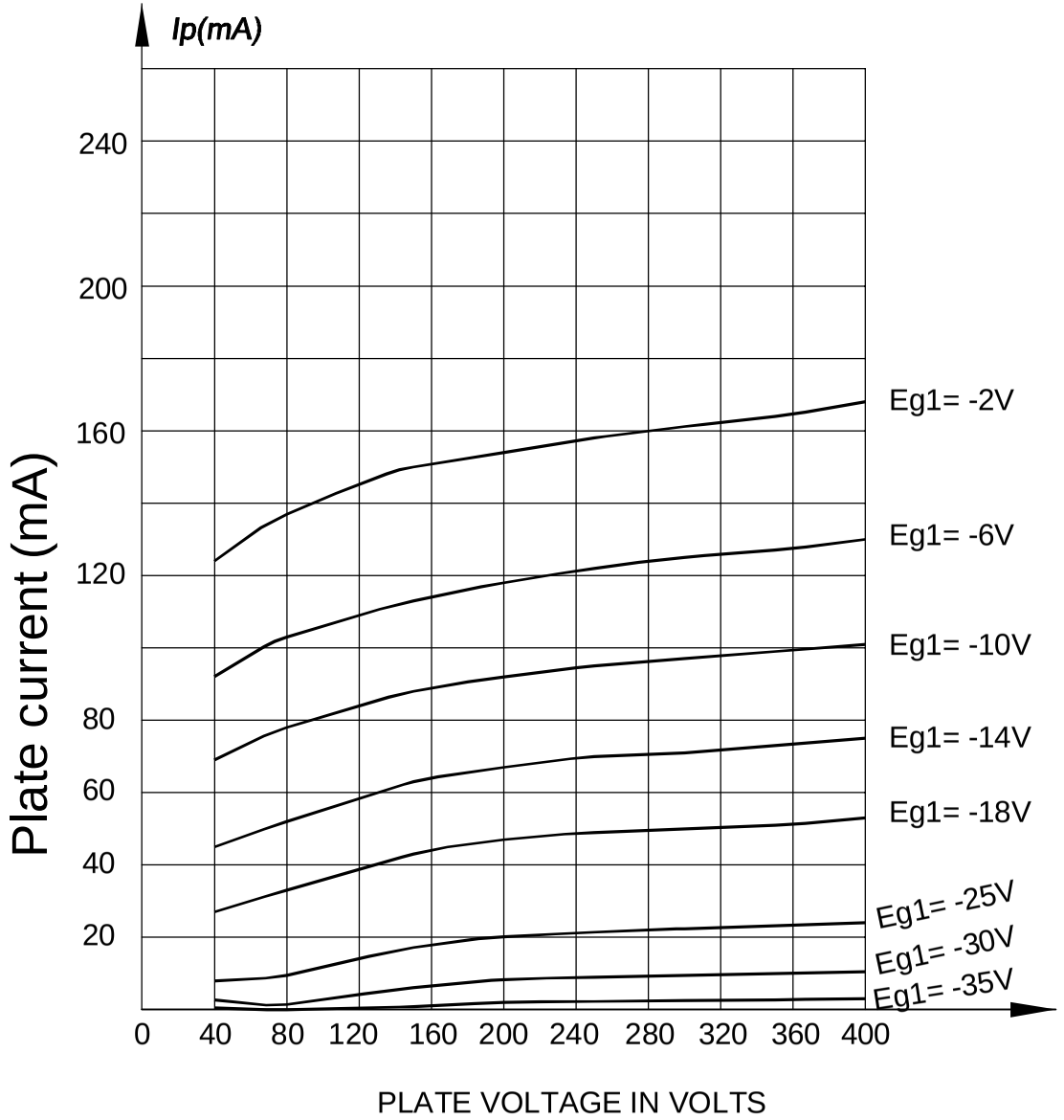
Ip=f(Eg)

Ef=6.3V



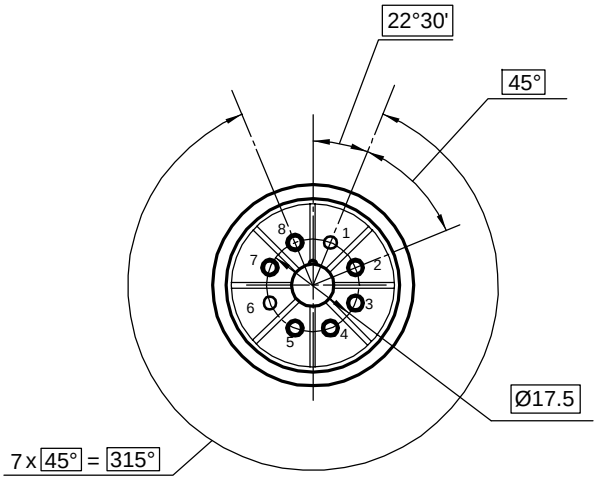
Ip=f(Eg)

Ef=6.3V, Eg_2=250V

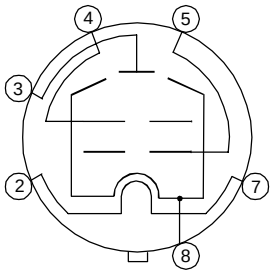


Vacuum tube 6L6GC STR Tung - Sol is a beam tetrode in the glass bulb with octal base,with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

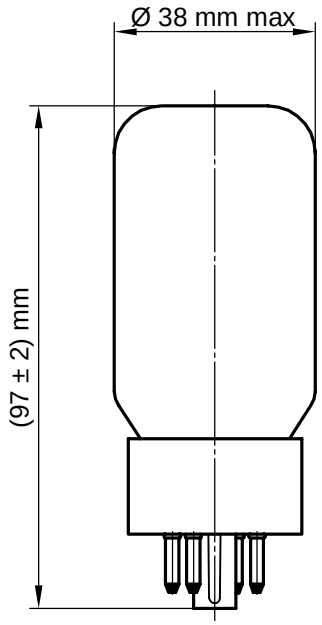
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



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

Electrical parameters

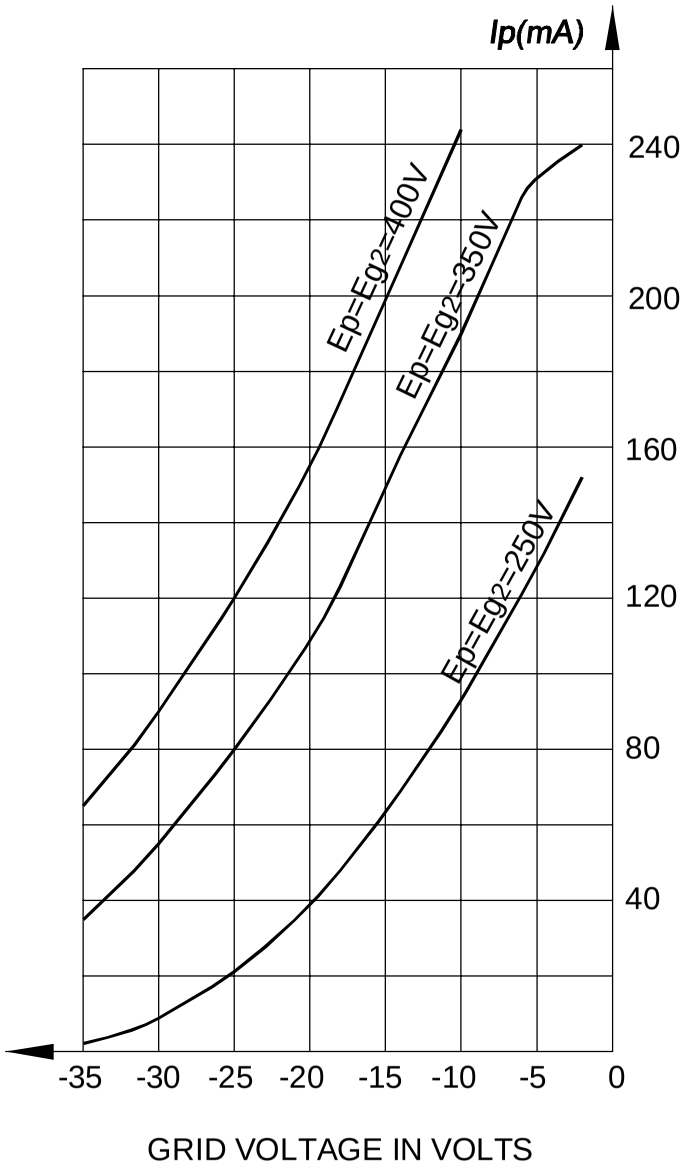
Parameters, conditions and units	Nominal	
	min	max
First grid reverse current, μA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V, first grid circuit resistance 0.1MΩ)	—	0.7
Heater current, A	0.845	1.06
Plate current, mA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	42	72
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	—	6.0
Output power, W (at: filament voltage 6.3 V, plate voltage 350 V,first grid voltage minus 18.0 V, second grid voltage 250 V, plate circuit resistance 4.2 kΩ first grid alternating voltage, efficacious 12.7 V)	8	—
First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 350 V, second grid voltage 250 V,)	—	60
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 350 V, first grid voltage minus 18.0 V, second grid voltage 250 V)	4.0	7.0
Distortion factor,%	—	15.0
Cahtode - heater insulation resistance, MΩ (at: filament voltage 6.3 V, cathode -heater voltage ± 100 V)	2.0	—

Maximum permissible operating conditions

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	6.9
Plate voltage, V	—	500
Second grid voltage, V	—	450
Cathode - heater voltage, V	—	± 200
Cathode current, mA	—	100
First grid voltage, negative, V	—	100
Power dissipation at the plate, W	—	30
Power dissipation at the second grin, W	—	5
First grid circuit resistance for each,M Ω fixed bias self - bias	 — —	 0.1 0.51
Temperature at the most heated part of the envelope, K°	—	523

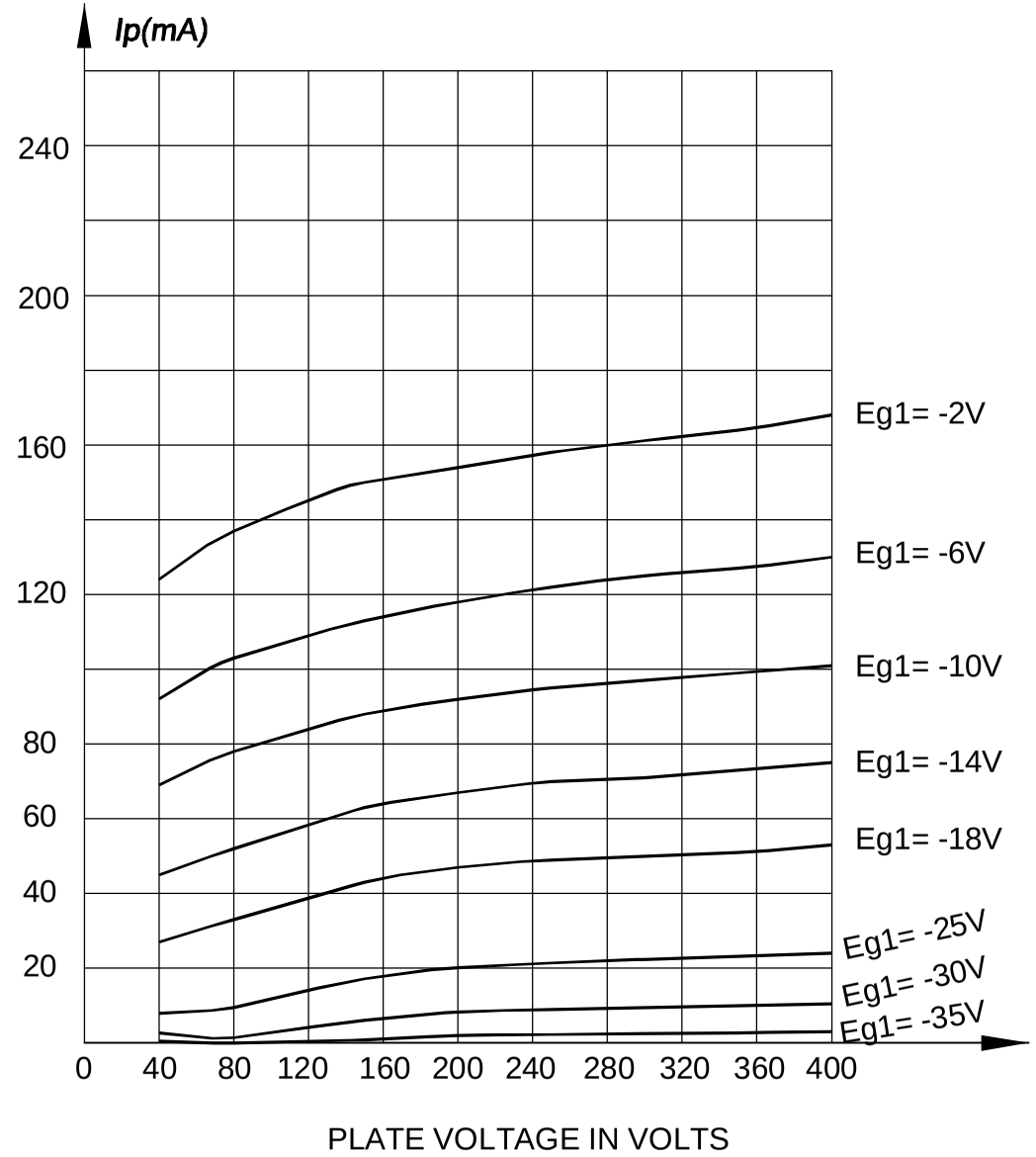
Ip=f(Eg)

Ef=6.3V



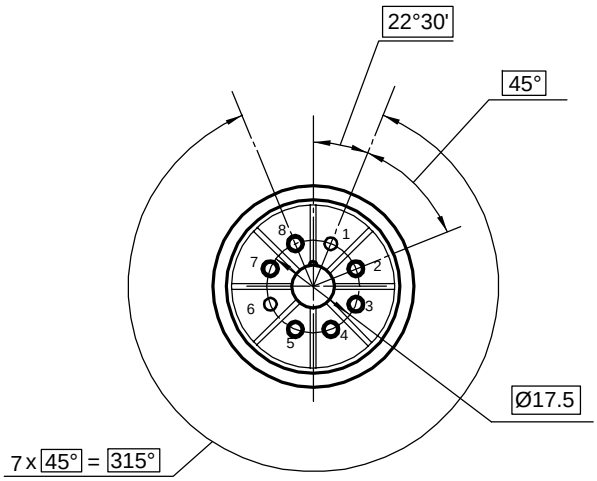
Ip=f(Eg)

Ef=6.3V, Eg_2=250V

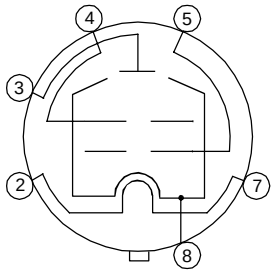


Vacuum tube 5881 Tung - Sol is a beam tetrode in the glass bulb with octal base,with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

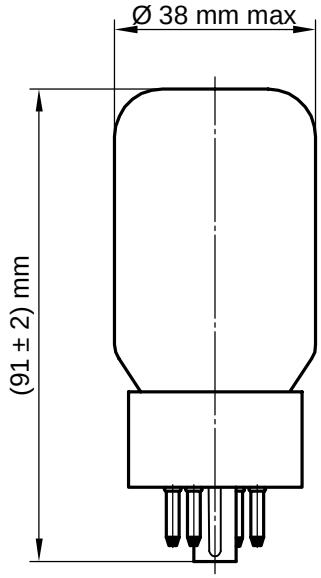
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



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

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
First grid reverse current, μA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 14.0 V, second grid voltage 250 V, first grid circuit resistance 0.51MΩ)	—	0.7
Heater current, A	0.840	0.920
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 14.0 V, second grid voltage 250 V)	60	88
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 14.0 V, second grid voltage 250 V)	—	8.0
Output power, W (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 14.0 V, second grid voltage 250 V, plate circuit resistance 2.5 kΩ first grid alternating voltage, efficacious 9.8 V)	5.8	—
Plate current at the beginning of the characteristic, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 35.0 V, second grid voltage 250 V)	—	10
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 14.0 V, second grid voltage 250 V)	5.2	7.0
Cahtode - heater insulation resistance, MΩ (at: filament voltage 6.3 V cathode -heater voltage ± 250 V)	4.0	—

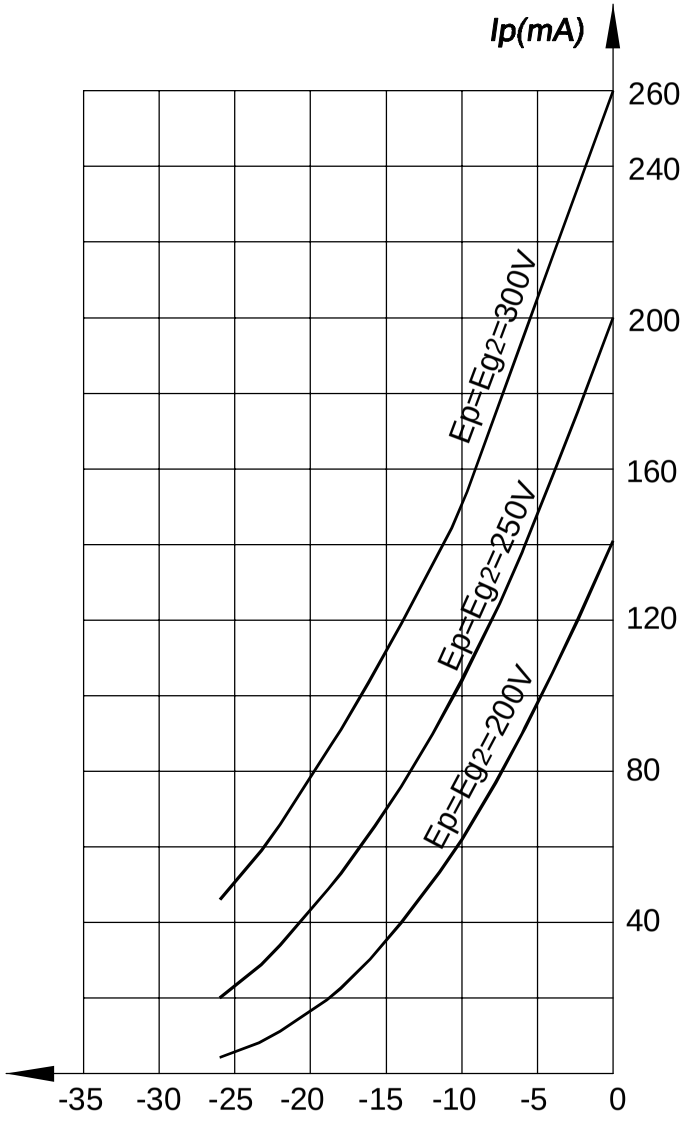
Maximum permissible operating conditions

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.76	7.0
Plate voltage, V	—	375
Second grid voltage, V	—	300
Cathode - heater voltage, V	—	± 250
Cathode current, mA	—	90
First grid voltage, negative, V	—	100
Power dissipation at the plate, W	—	20.5
Power dissipation at the second grin, W	—	2
First grid circuit resistance for each,M Ω	—	0.51
Temperature at the most heated part of the envelope, K°	—	513

5881 Tung - Sol

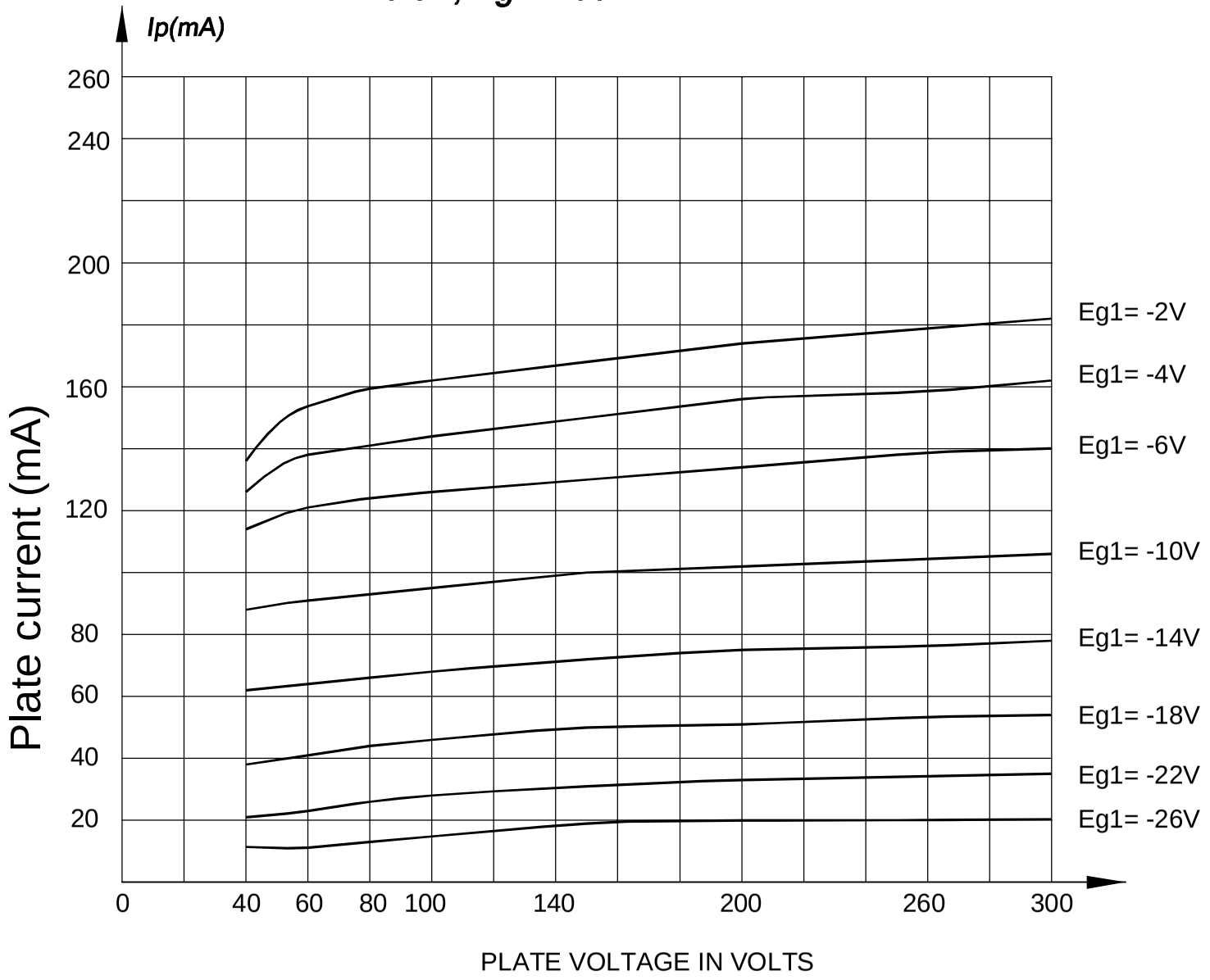
Ip=f(Eg)

Ef=6.3V



Ip=f(Eg)

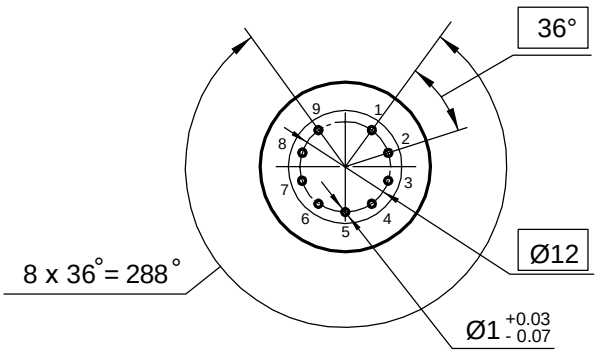
Ef=6.3V, Eg_2=250V



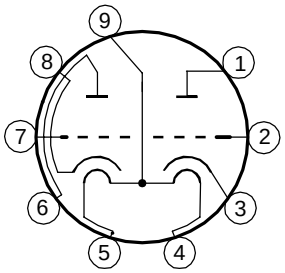
12AX7 Tung-Sol

Vacuum tube 12AX7 Tung-Sol is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in the output stages of HI-FI audio.

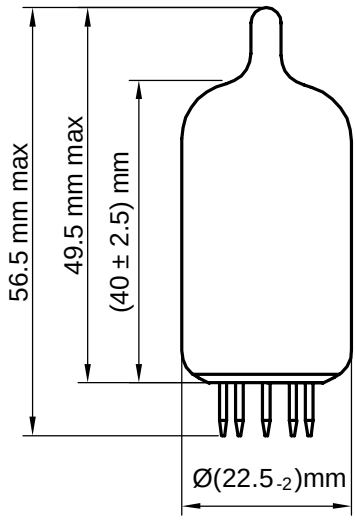
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



Lead designation	Name of electrode
1	Second triode plate
2	Second triode grid
3	Second triode cathode
4, 5, 9	Heater
6	First triode plate
7	First triode grid
8	First triode cathode

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current,mA at: filament voltage 6.3 V at: filament voltage 12.6 V	 320 160	 365 183
Grid back curret, μA, (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V, resistance in grid circuit 1.0 MΩ)	—	0.2
Plate current, mA, (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	0.75	2.1
First and second triodes plate current difference, % (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	—	± 40
Plate current at the beginning of the characteristic, μA (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 4.5 V)	—	30
Slope of characteristic, mA/V (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	1.4	—
Amplification factor (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	83	—
Cathode - heater insulation resistance, MΩ (at: filament voltage 6.3 V or 12.6 V, cathode -heater voltage ±200 V)	20	—

Maximum permissible operating conditions

Parameters, units	Nominal	
	min	max
Filament voltage, V for parallel connection for series connection	 6 12	 6.6 13.2
Plate voltage, V	—	330
Cathode - heater voltage, V	—	± 200
Cathode current, mA	—	9
Power dissipation at the plate of each triode, W	—	1.2
Grid circuit resistance for each of the triodes, M Ω fixed bias self - bias	 — —	 1.0 2.2

12AX7 Tung-Sol