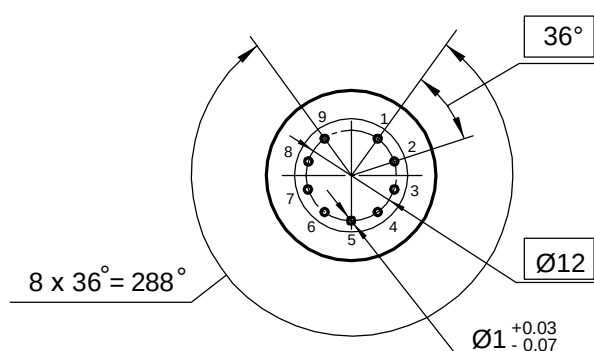


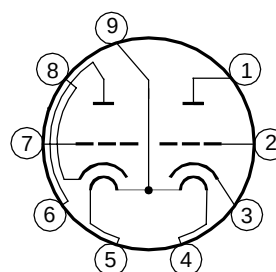
12AT7 Genalex/ ECC81/B739

Vacuum tube 12AT7 Genalex/ECC81/B739 is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

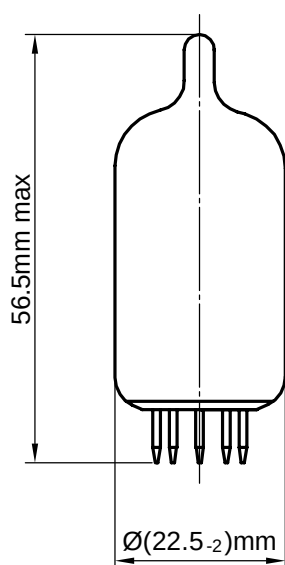
Pin arrangement



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	350 175	390 195
Grid back current, 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 0.25 M Ω)	—	0.5
Plate current, mA, (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	9.0	12.0
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
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)	4.5	6.5
Amplification factor (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 2.0 V)	45	—
Cathode - heater insulation resistance, M Ω (at: filament voltage 6.3 V or 12.6 V, cathode - heater voltage ± 200 V)	20	—
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 12.0 V)	—	30

Limiting Values

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
Power dissipation at the plate of each triode, W	—	3.25
Cathode current, mA	—	18
Grid circuit resistance for each of the triodes, M Ω fixed bias self - bias	— —	0.25 1.0

$I_p=f(E_g)$

$E_f=6.3V$

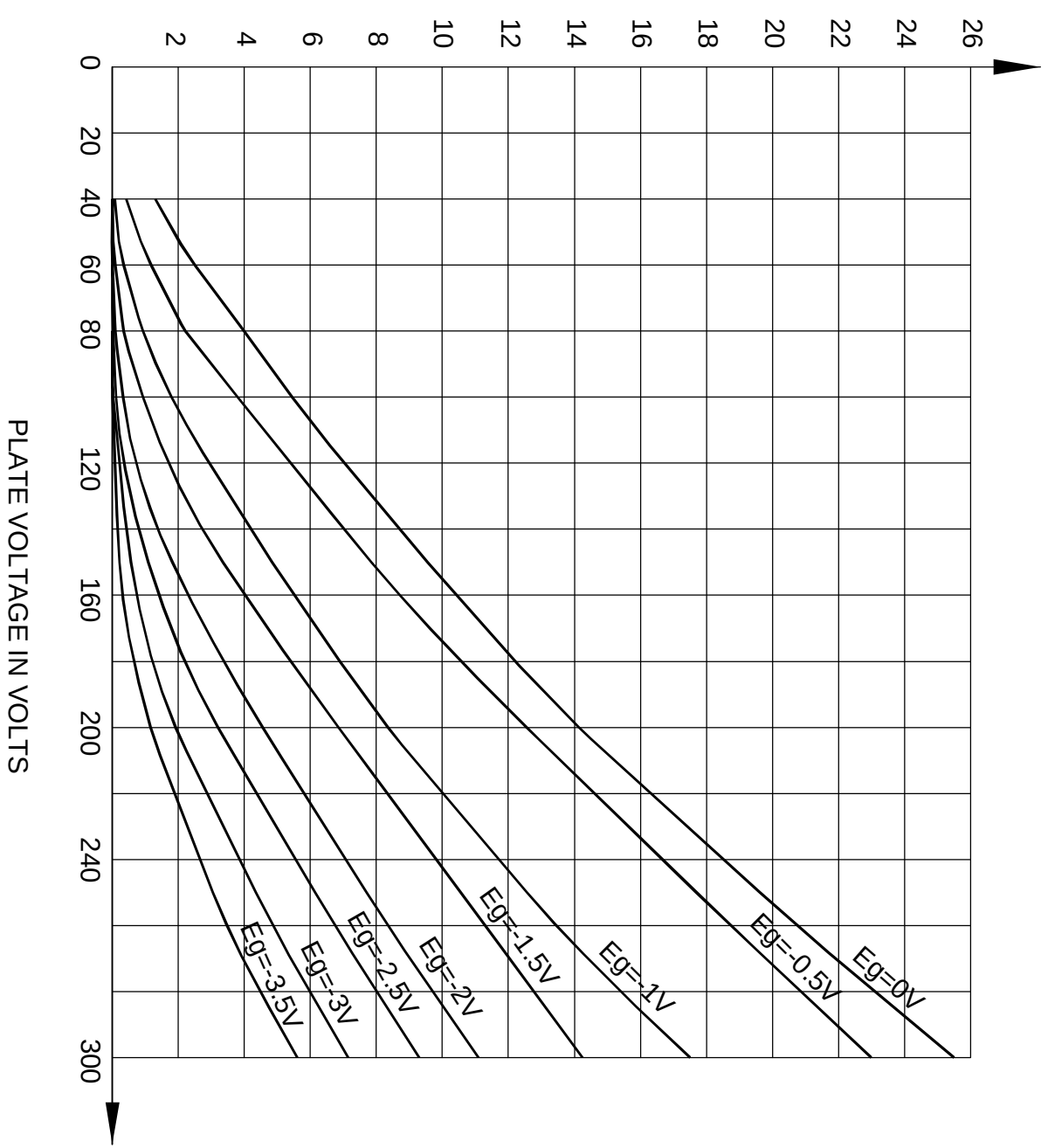
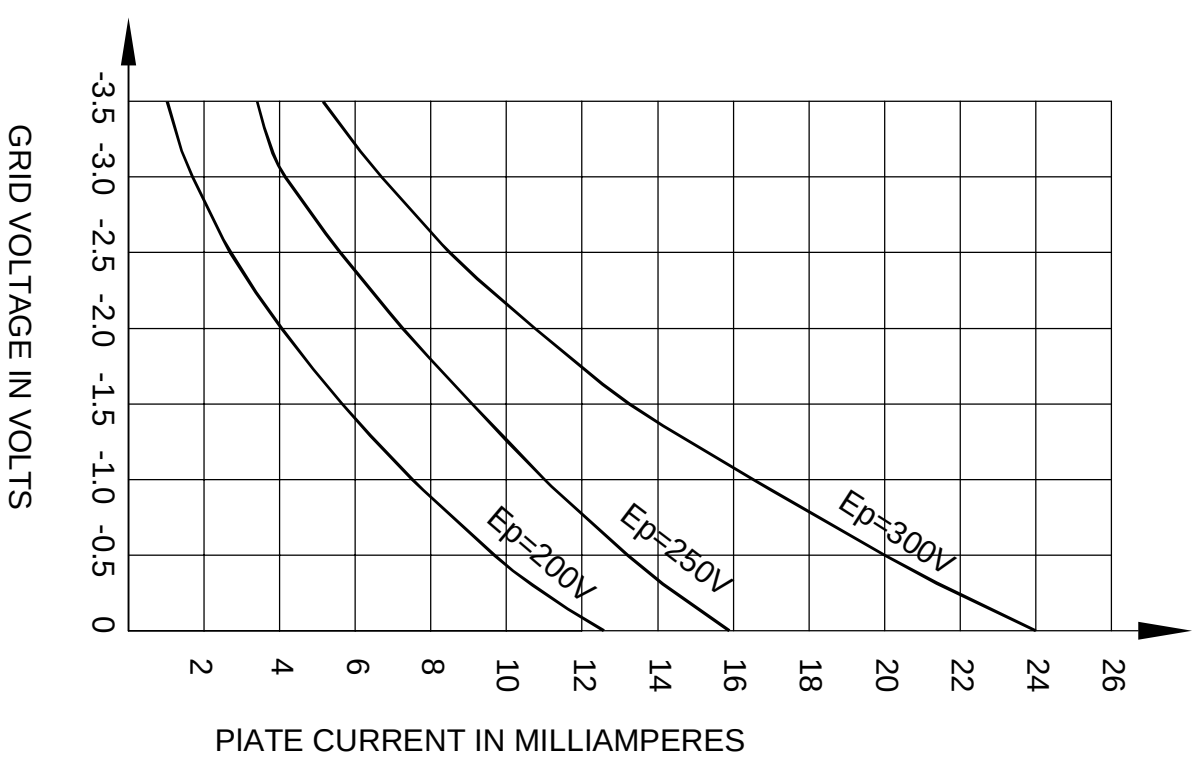
$I_p(mA)$

$I_p(mA)$

$I_p=f(E_p)$

$E_f=6.3V$

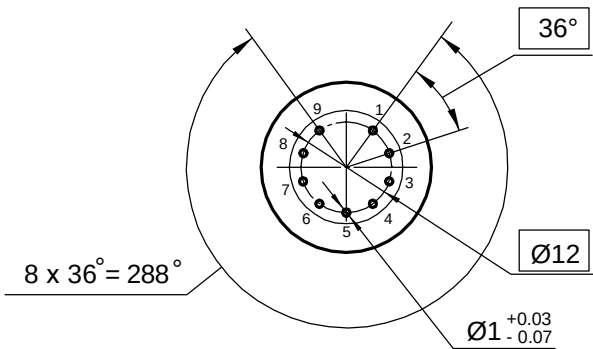
12AT7 Genalex/
ECC81/B739



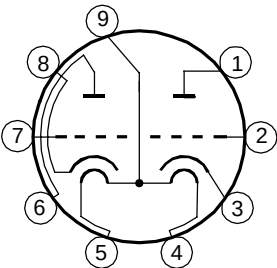
12AU7 Genalex/
ECC82/B749

Vacuum tube 12AU7 Genalex/ECC82/B749 is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

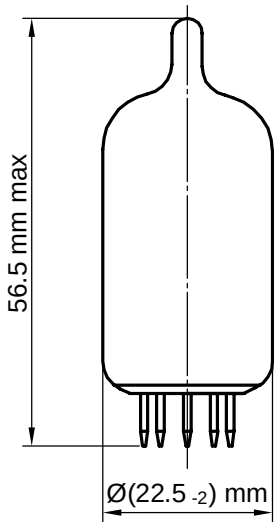
Pin arrangement



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

12AU7 Genalex/
ECC82/B749

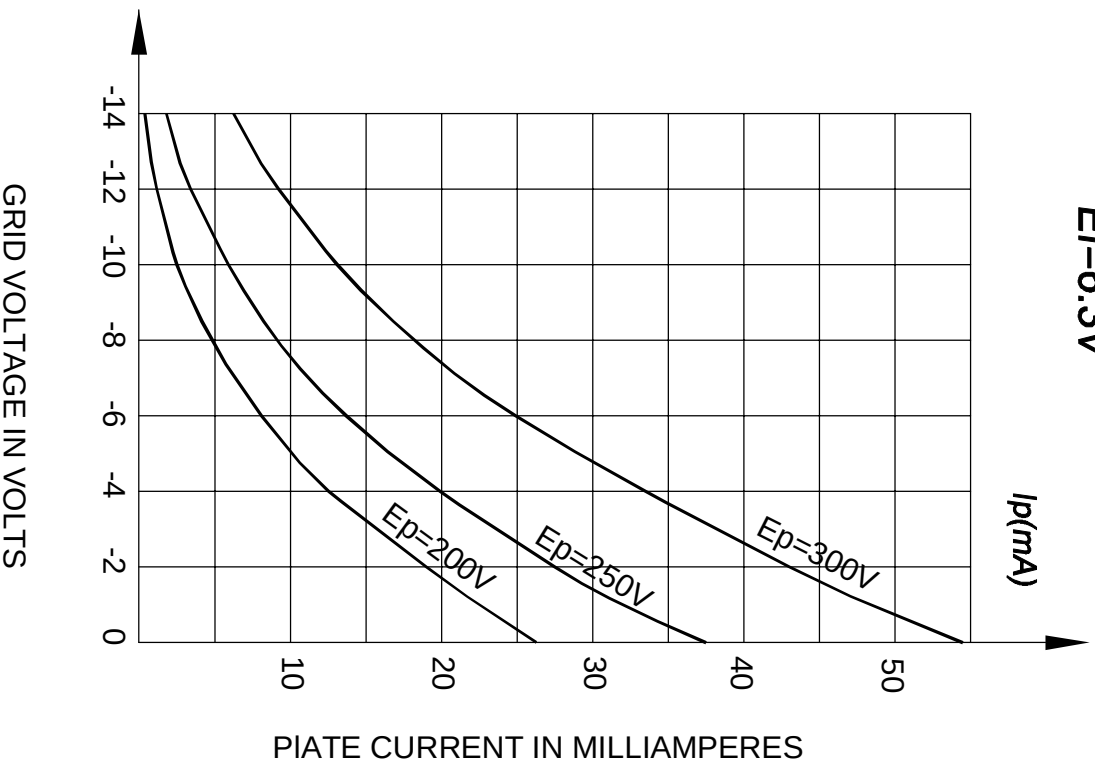
Parameters, conditions and units	Nominal	
	min	max
Heater current, mA at: filament voltage 6.3 V at: filament voltage 12.6 V	300 150	350 175
Grid reverse current, μA , (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 8.5 V, resistance in grid circuit 0.25 M Ω)	—	0.2
Plate current, mA, (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 8.5 V)	8.8	12.0
First and second triodes plate current difference, % (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 8.5 V)	—	± 30
Slope of characteristic, mA/V (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 8.5 V)	1.7	3.0
Amplification factor (at: filament voltage 6.3 V or 12.6 V, plate voltage 250 V, grid voltage minus 8.5 V)	13	—
Cathode - heater insulation resistance, M Ω (at: filament voltage 6.3 V or 12.6 V, cathode - heater voltage ± 200 V)	20	—
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 25.0 V)	—	50

Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V for parallel connection for series connection	6 12	6.6 13.2
Plate voltage, V	—	300
Cathode - heater voltage, V	—	± 200
Power dissipation at the plate of each triode, W	—	2.75
Cathode current, mA	—	22
Grid circuit resistance for each of the triodes, M Ω fixed bias self - bias	— —	0.25 1.0

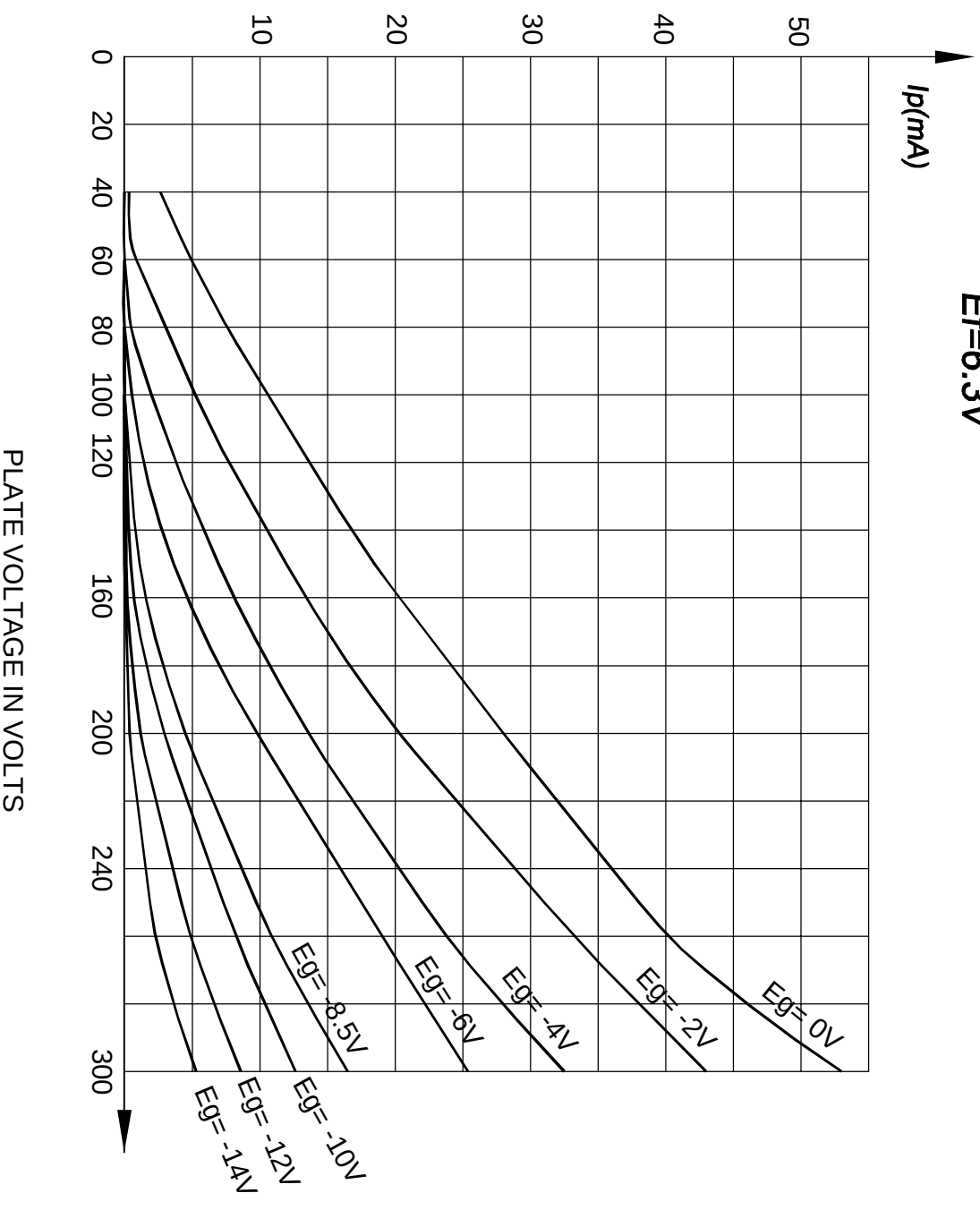
$$I_p = f(E_g)$$

$$E_f = 6.3V$$



$$I_p = f(E_p)$$

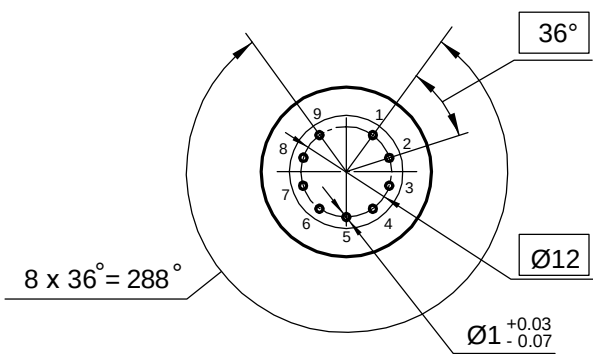
$$E_f = 6.3V$$



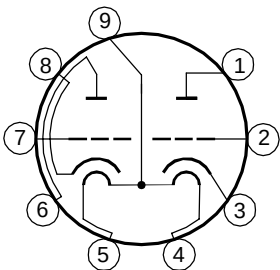
12AX7 Genalex/ECC83/B759

Vacuum tube 12AX7 Genalex/ECC83/B759 is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

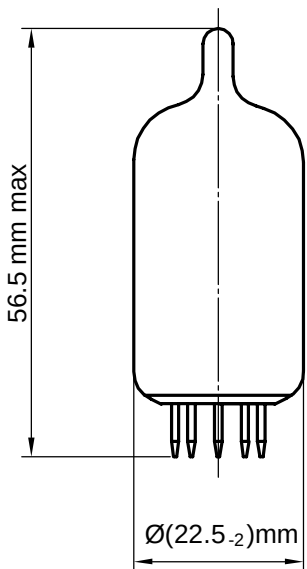
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



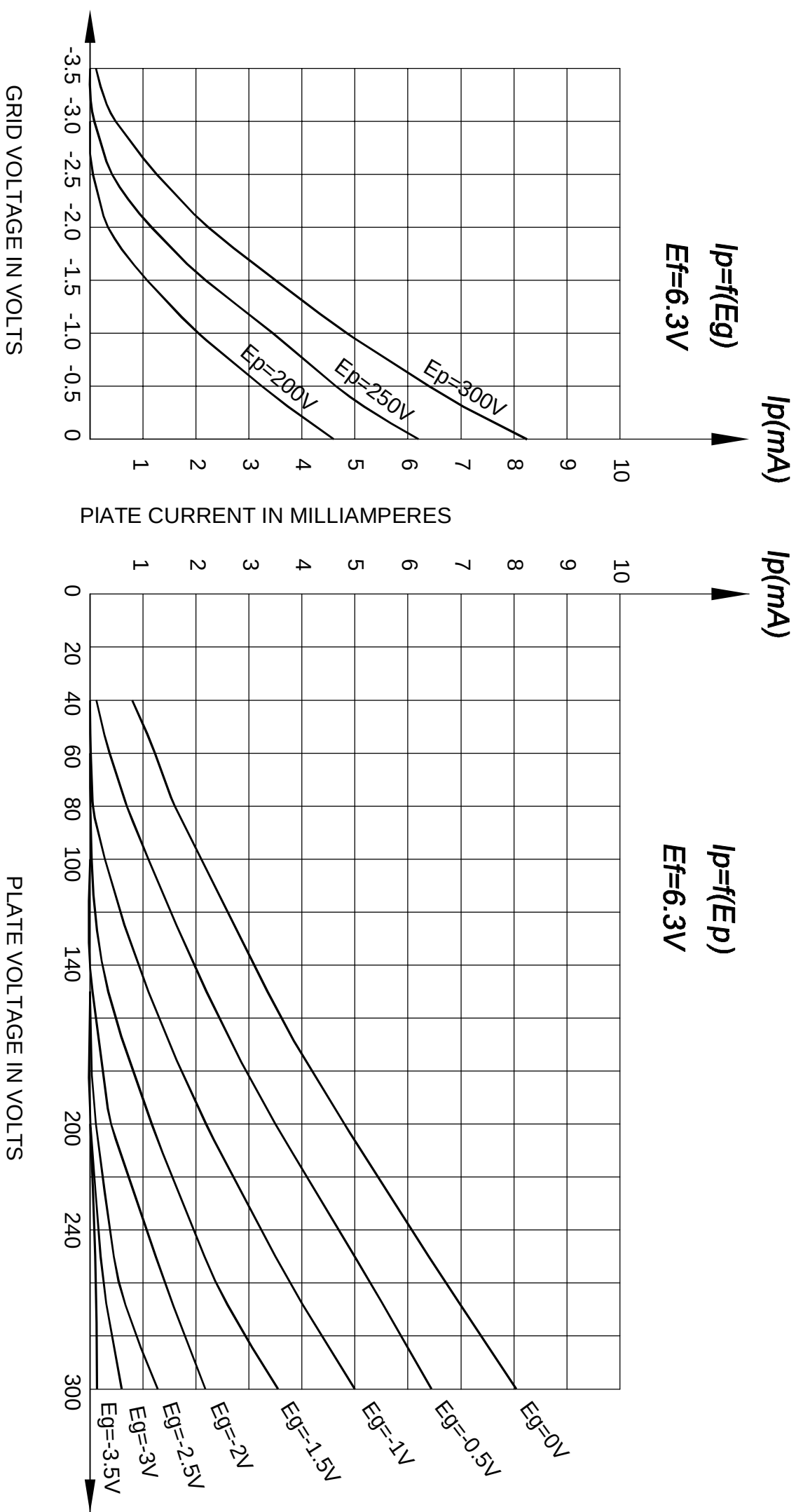
Lead designation	Name of electrode
1	Second triode plate
2	Second triode grid
3	Second triode cathode
4, 5, 9	Heater
6	First triode plate
7	First triode grid
8	First triode cathode

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, mA at: filament voltage 6.3 V at: filament voltage 12.6 V	350 175	390 195
Grid reverse current, 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 M Ω)	—	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)	1.05	2.0
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)	—	± 18
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, M Ω (at: filament voltage 6.3 V or 12.6 V, cathode -heater voltage ± 200 V)	20	—

Limiting Values

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



GENALEX ECC83/B759

GOLD LION CUSTOM TUBE

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	0.2	3, 4
Heater current, ma not less	275	1
	135	2
not more	325	1
	160	2
Plate current, ma not less	0.75	3, 5
not more	1.75	
Plate current at the beginning of the curve, μA not more	20	3, 6
Transconductance, ma/v, not less	1.4	3, 5
Amplification factor, not less	85	3.5
not more	115	
Structure-borne noise, mv, not more	3.5	3,7

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 1,0 Mohm
5. Plate voltage 250v, grid voltage -2v
6. Plate voltage 250v, grid voltage -4v
7. Plate voltage 250v, cathode circuit resistance 0.6Kohm at automatic bias, plate circuit resistance 10,0 Kohm, speeding-up 10 m/sec², oscillation frequency 50Hz.

Electrical parameters that could be changed within exploitation

Transconductance, ma/v, not less	1.1
Grid reverse current, μA , not more	0.5

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	9
Plate dissipation power of each triode, W, not more	1.2
Each triode grid circuit resistance:	
under fixed bias, Mohm, not more	1.2
under automatic bias, Mohm not more	2.2

Plate voltage of cold tube, v, not more	600
Max grid reverse current, v, not more	55

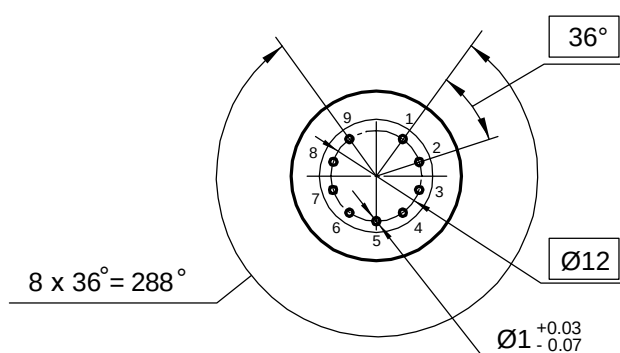
The tube can't be exploited at two or more limited conditions.

Interelectrode capacitances:

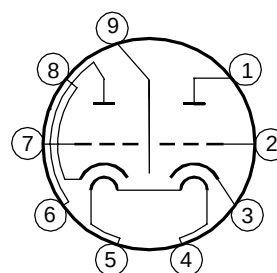
Input capacitance of each triode, pf, nominal	1.6
Output capacitance of 1 st triode, pf, nominal	0.46
Transfer capacitance of each triode, pf, nominal	1.7
Output capacitance of 2 nd triode, pf, nominal	0.34
Plate to plate capacitance, pf, nominal	0.6
Cathode to heater capacitance, pf, nominal	5.0

Vacuum tube 6922 Genalex/E88CC is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

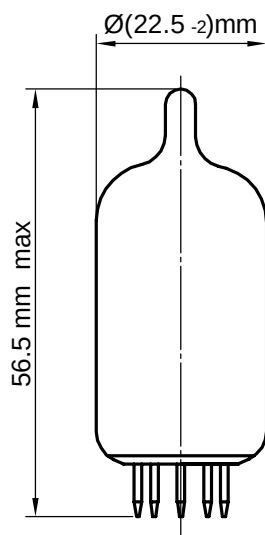
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



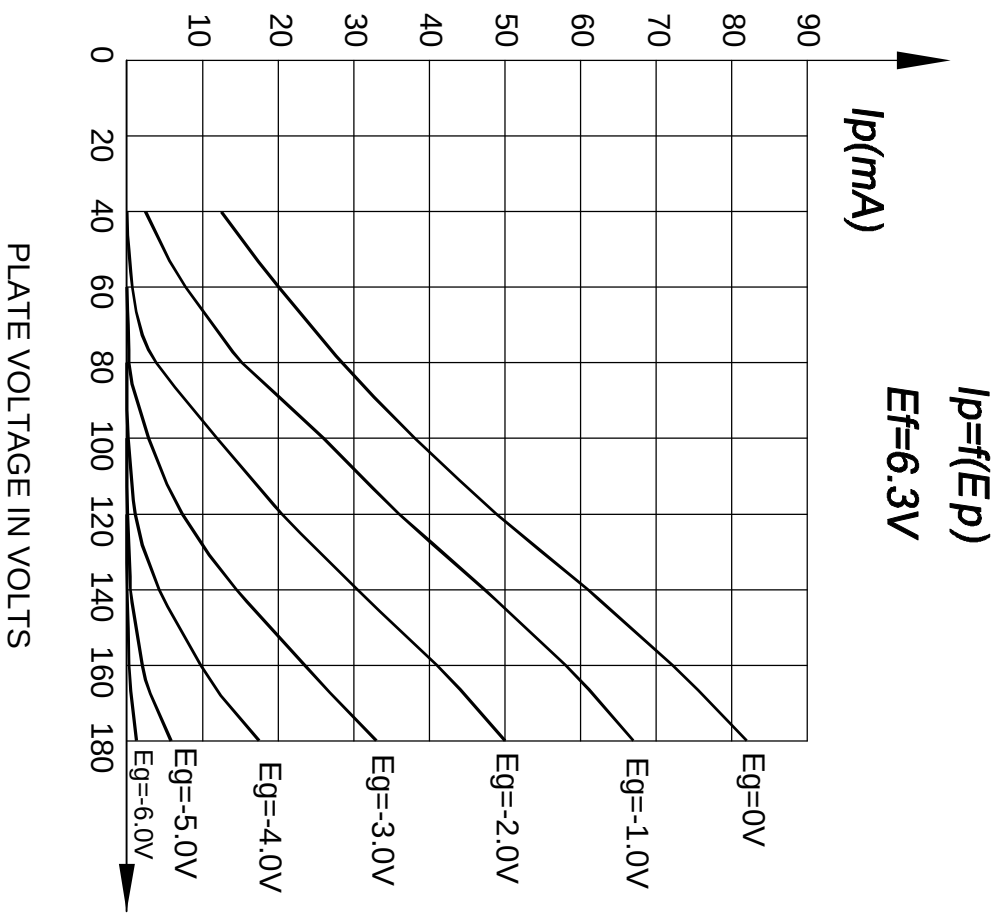
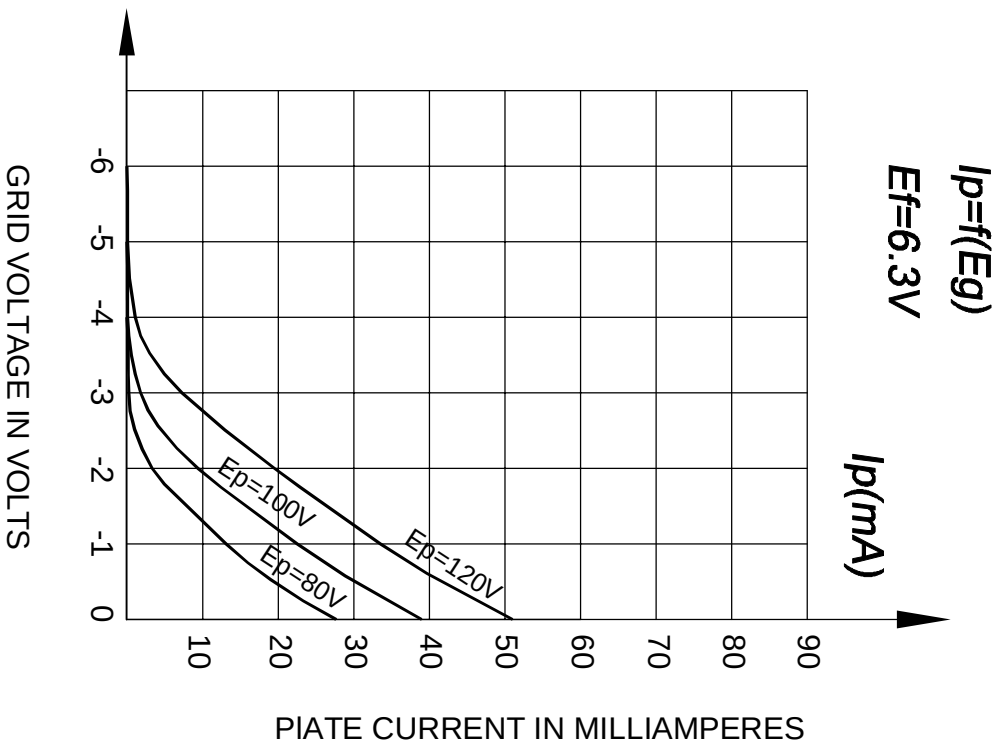
Lead designation	Name of electrode
1	Second triode plate
2	Second triode grid
3	Second triode cathode
4, 5	Heater
6	First triode plate
7	First triode grid
8	First triode cathode
9	Screen

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, mA	335	385
Grid reverse current, μA , (at: filament voltage 6.3 V, plate voltage 120 V, grid voltage minus 1.5 V, resistance in grid circuit 0.51 M Ω)	—	0.3
Plate current, mA, (at: filament voltage 6.3 V, plate voltage 90 V, resistance in cathode circuit 82 Ω)	14	18
Plate current at the beginning of the characteristic, μA (at: filament voltage 6.3 V, plate voltage 90 V, grid voltage minus 8 V,		100
Slope of characteristic, mA/V (at: filament voltage 6.3 V, plate voltage 90 V, resistance in cathode circuit 82 Ω)	9	16
Amplification factor (at: filament voltage 6.3 V, plate voltage 90 V, resistance in cathode circuit 82 Ω)	24	40
Cathode - heater insulation resistance, M Ω (at: filament voltage 6.3 V, cathode -heater voltage ± 200 V)	12.5	—

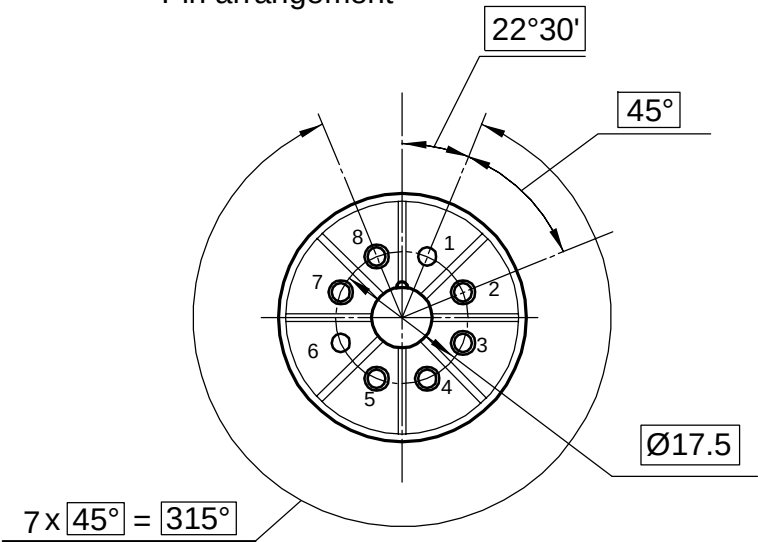
Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	6	6.6
Plate voltage, V	—	300
Cathode - heater voltage, V	—	± 150
Cathode current (average), mA	—	20
Power dissipation at the plate of each triode, W	—	1.8
Grid circuit resistance for each of the triodes, M Ω	—	1.0
Grid voltage, negative, V	—	100
Temperature at the most heated part of the envelope, K°	—	393

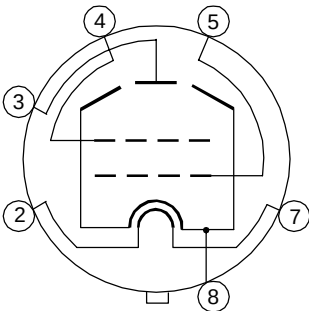


Vacuum tube 6V6GT/CV511 Genalex is a beam tetrode in the glass bulb, with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

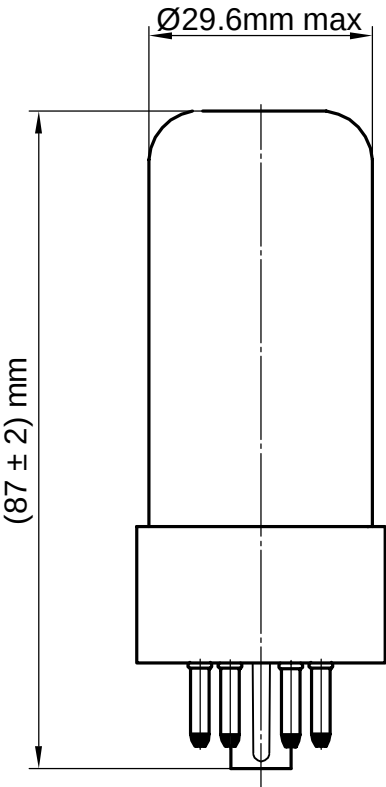
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



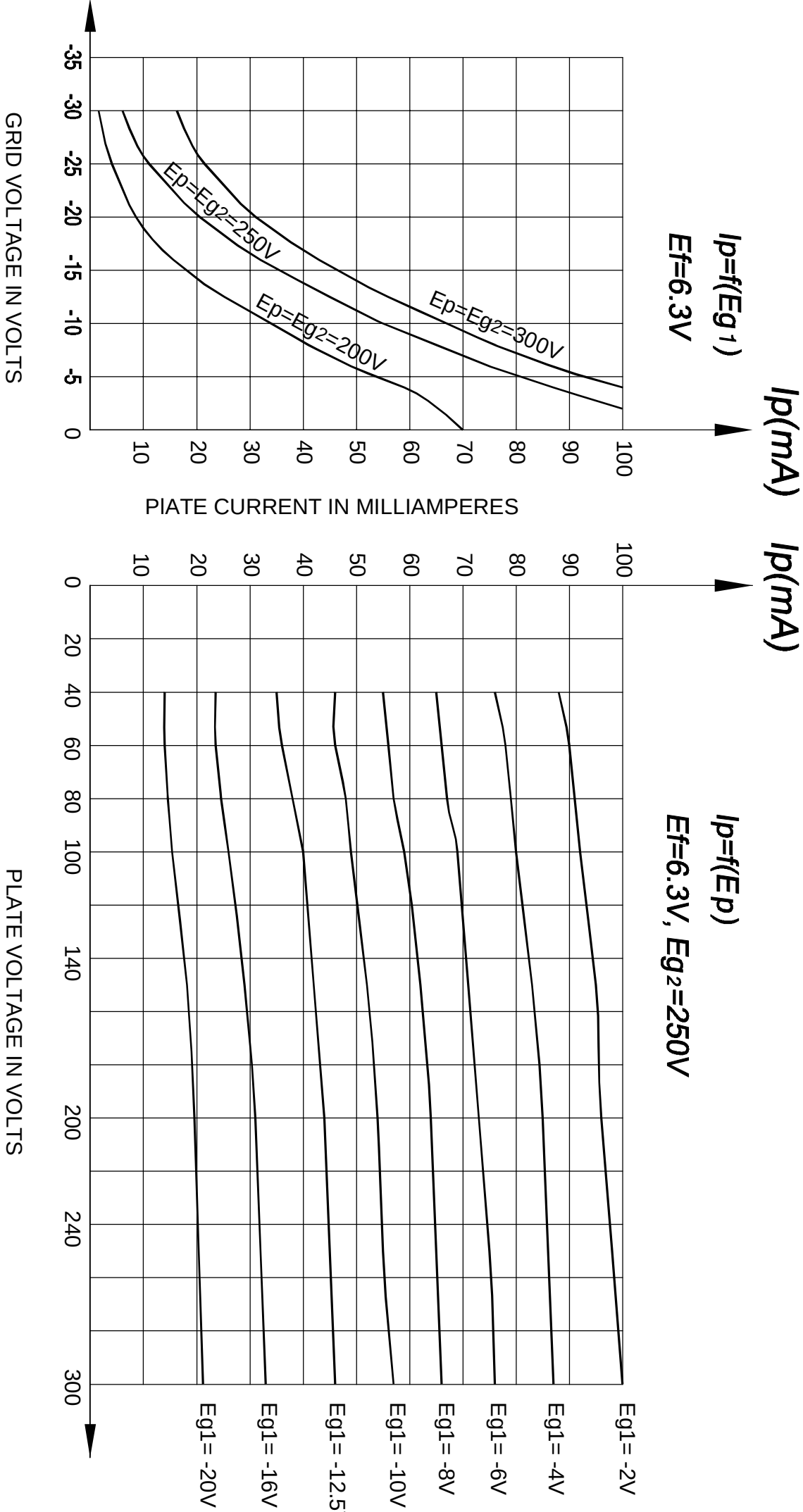
Lead designation	Name of electrode
1, 6	No
2, 7	Heater
3	Plate
4	Grid 2
5	Grid 1
8	Cathode, beam-forming screen

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 12.5 V, second grid voltage 250 V, first grid circuit resistance 0.1 M Ω)	—	2.0
Heater current, mA	460	530
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 12.5 V, second grid voltage 250 V)	38	46
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 12.5 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 12.5 V, second grid voltage 250 V, plate circuit resistance 5.0 k Ω first grid alternating voltage, efficacious 8.8 V)	3.4	—
Output power at low voltage, W (at: filament voltage 5.7 V plate voltage 250 V, first grid voltage minus 12.5 V, second grid voltage 250 V, plate circuit resistance 5.0 k Ω first grid alternating voltage, efficacious 8.8 V)	2.9	—
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 12.5 V, second grid voltage 250 V)	3.0	5.2
Cahtode - heater insulation resistance, M Ω (at: filament voltage 6.3 V, cathode -heater voltage ± 100 V)	2.0	—

Operating conditions limits

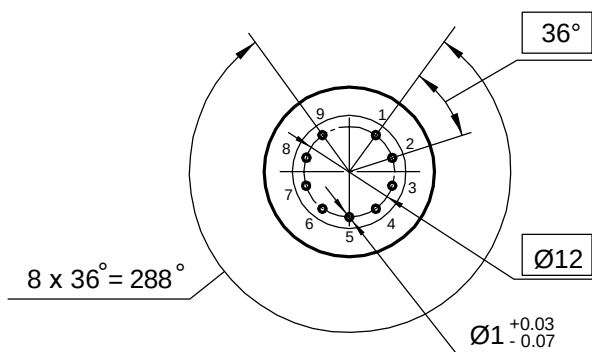
Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	7.0
Cathode - heater voltage, V	—	± 180
Power dissipation at the plate, W	—	13.2
Power dissipation at the second grid, W	—	2.2
First grid circuit resistance, M Ω fixed bias	—	0.1
self - bias	—	0.51
Temperature at the most heated part of the envelope, K°	—	483



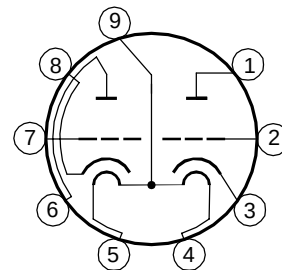
CV4004/ECC83/12AX7 Genalex

Vacuum tube CV4004/ECC83/12AX7 Genalex is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

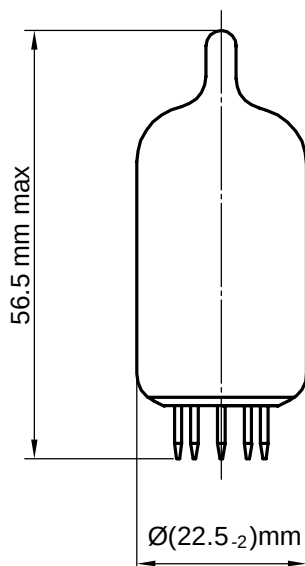
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



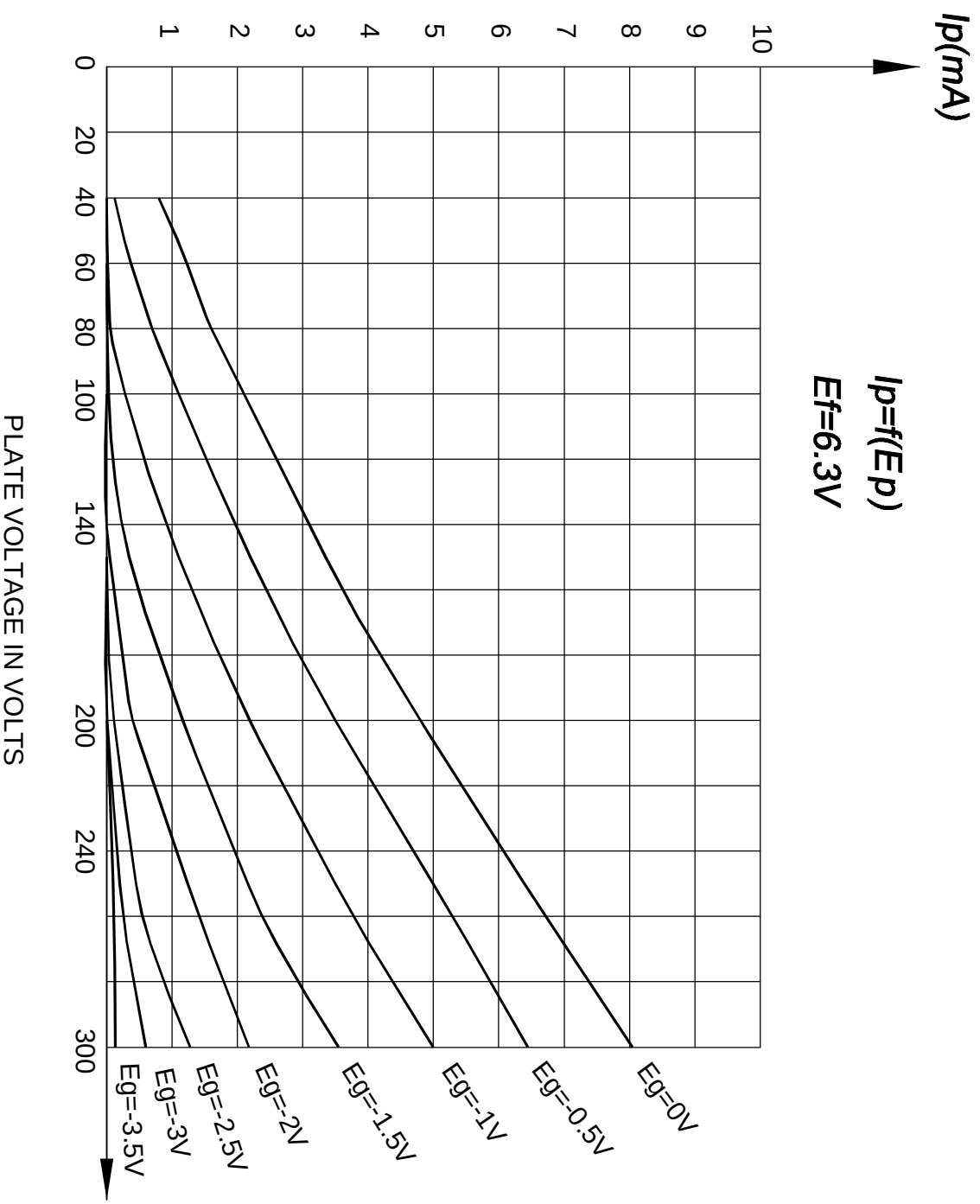
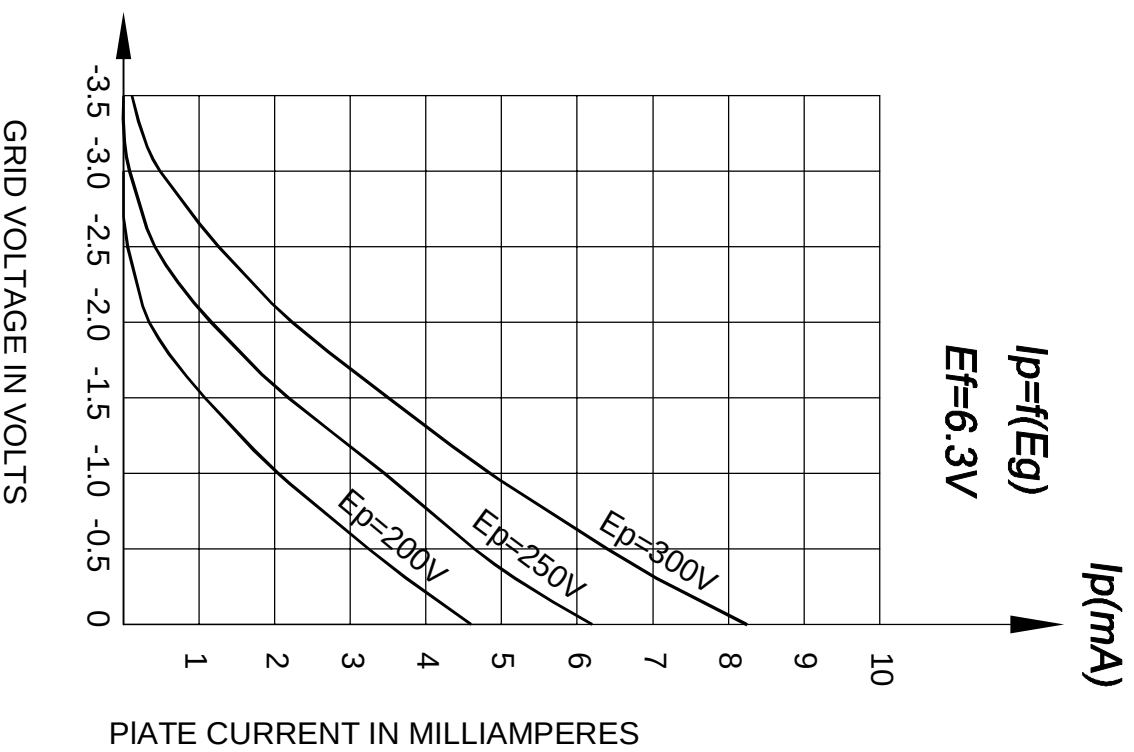
Lead designation	Name of electrode
1	Second triode plate
2	Second triode grid
3	Second triode cathode
4, 5, 9	Heater
6	First triode plate
7	First triode grid
8	First triode cathode

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 reverse current, 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 M Ω)	—	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)	1.05	2.0
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)	—	± 15
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, M Ω (at: filament voltage 6.3 V or 12.6 V, cathode -heater voltage ± 200 V)	20	—

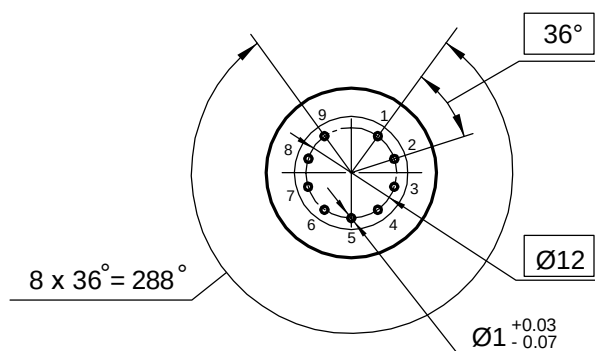
Limiting Values

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

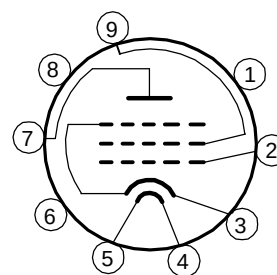


Vacuum tube N709/EL84 Genalex is a miniature pentode with equipotential cathode, designed to amplify low frequency power amplification in the output stages of HI-FI audio.

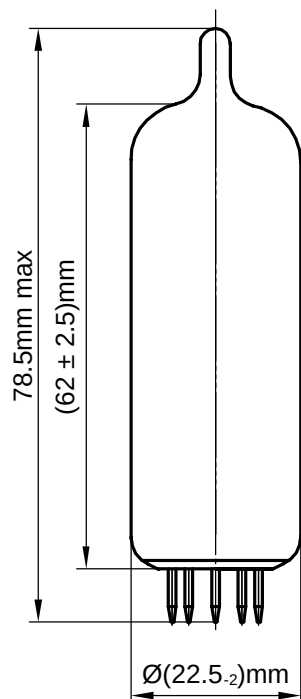
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



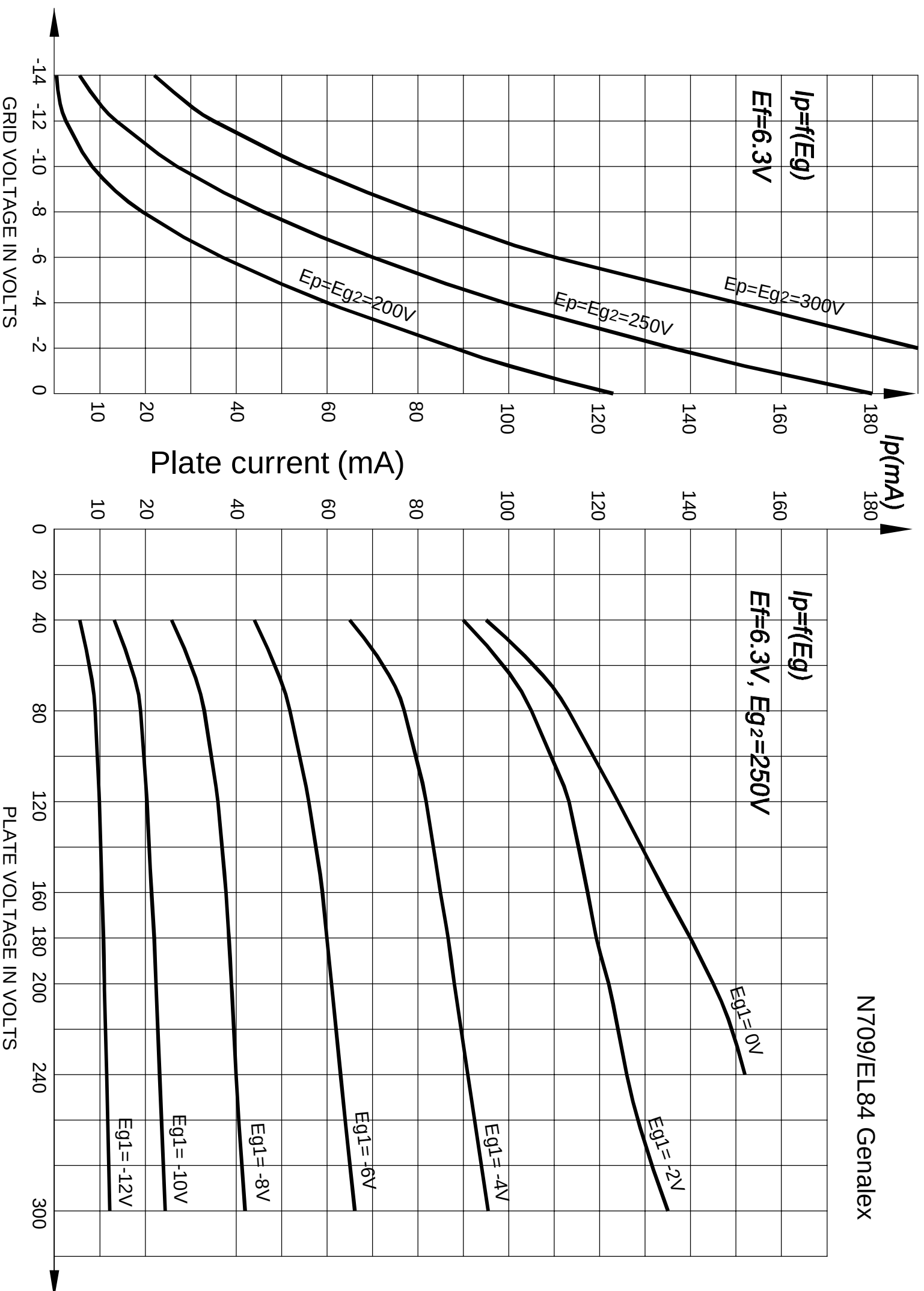
Lead designation	Name of electrode
1, 6, 8	Free
2	Grid 1
3	Cathode, Grid 3
4, 5	Heater
7	Plate
9	Grid 2

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 6.6 V, second grid voltage 250 V, first grid circuit resistance 0.51M Ω)	—	1.0
Heater current, mA	700	840
Plate current, mA (at: filament voltage 6.3 V plate voltage 250 V, first grid voltage minus 6.6 V, second grid voltage 250 V)	40	54
Second grid current, mA (at: filament voltage 6.3 V plate voltage 250 V, first grid voltage minus 6.6 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 6.6 V, second grid voltage 250 V, plate circuit resistance 5.2 k Ω alternating first grid, efficacious 5.2 V)	3.0	—
Output power at low voltage, W (at: filament voltage 5.7 V plate voltage 250 V, first grid voltage minus 6.6 V, second grid voltage 250 V, plate circuit resistance 5.2 k Ω first grid alternating voltage, efficacious 5.2 V)	2.0	—
Slope of characteristic, mA/V (at: filament voltage 6.3 V plate voltage 250 V, first grid voltage minus 6.6 V, second grid voltage 250 V)	9.0	—
Distortion factor, %	—	10
Cahtode - heater insulation resistance, M Ω (at: filament voltage 6.3 V cathode -heater voltage ± 100 V)	5.0	—

Maximum permissible operating conditions

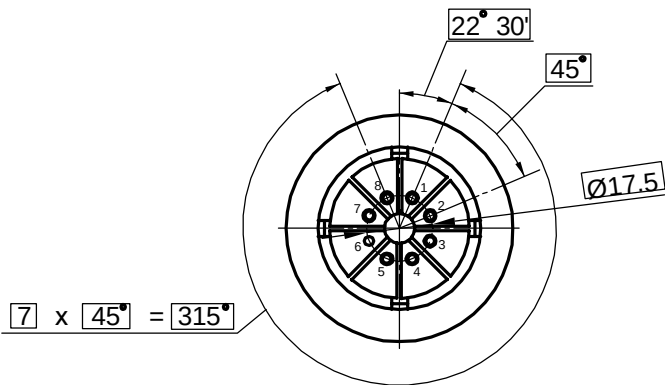
Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	7.0
Plate voltage, V	—	300
Second grid voltage, V	—	300
Cathode - heater voltage, V	—	100
Cathode current, mA	—	65
Power dissipation at the plate, W	—	14
Power dissipation at the second grin, W	—	2.2
First grid circuit resistance for each, M Ω self - bias	—	1.0
fixed bias	—	0.51
Temperature at the most heated part of the envelope, K	—	493

N709/EL84 Genalex

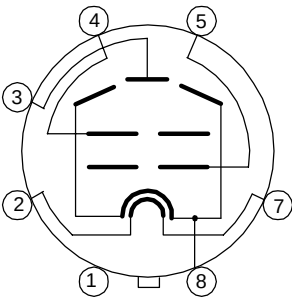


Vacuum tube KT66 Genalex is a beam tetrode in the glass bulb with octal base,with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

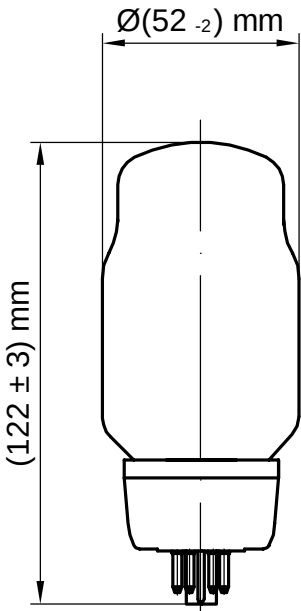
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



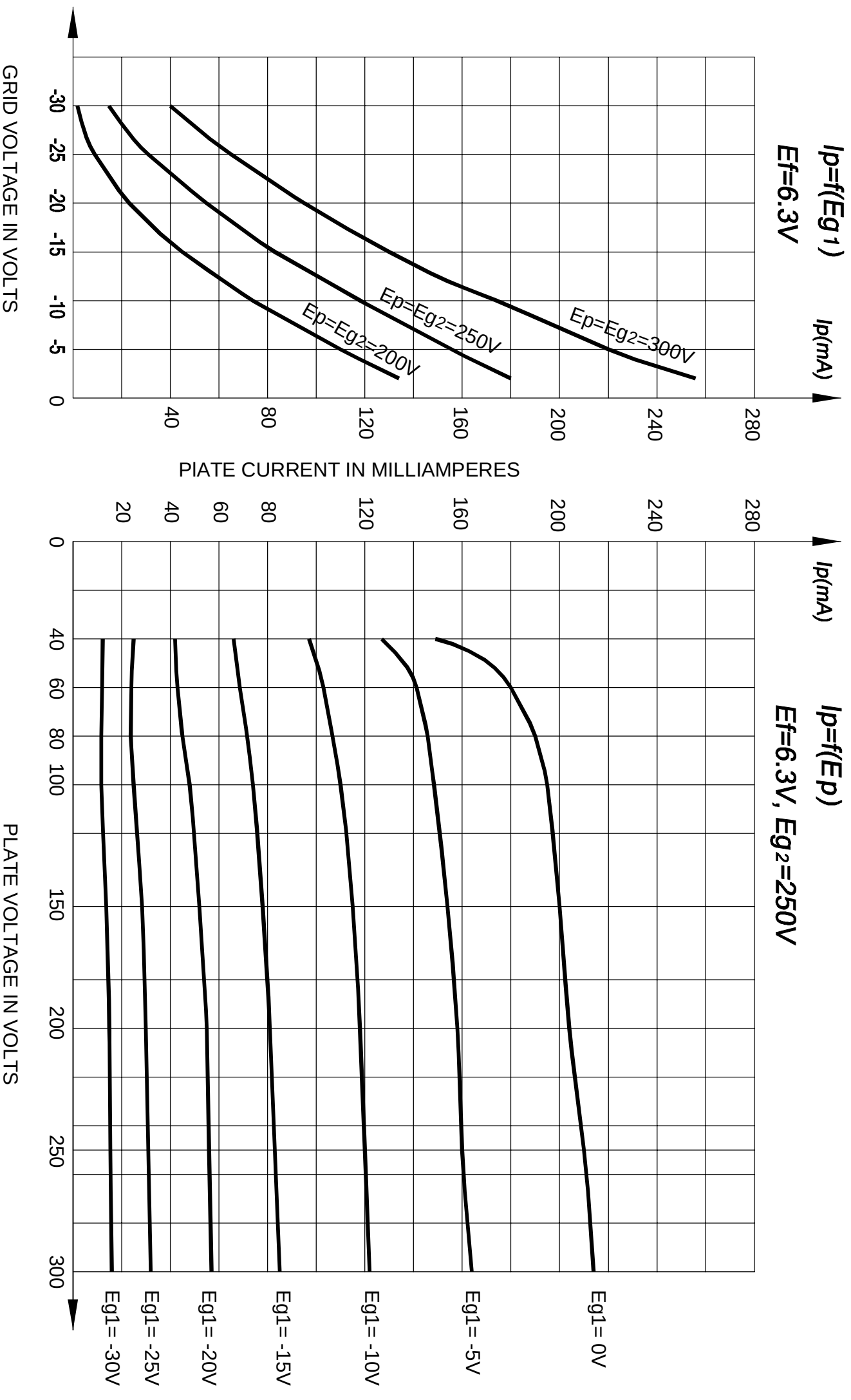
Lead designation	Name of electrode
1	Empty
2, 7	Heater
3	Plate
4	Grid 2
5	Grid 1
6	No
8	Cathode, beam-forming screen

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 15.0 V, second grid voltage 250 V, first grid circuit resistance 0.24M Ω)	—	2.0
Heater current, A	1.3	1.6
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 15.0 V, second grid voltage 250 V)	60	110
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 15.0 V, second grid voltage 250 V)	—	10
Output power, W (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 15.0 V, second grid voltage 250 V, plate circuit resistance 2.2 k Ω first grid alternating voltage, efficacious 10.6 V)	5.4	—
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 15.0 V, second grid voltage 250 V)	5.0	—
Cahtode - heater insulation resistance, M Ω (at: filament voltage 6.3 V, cathode -heater voltage ± 150 V)	1.5	—

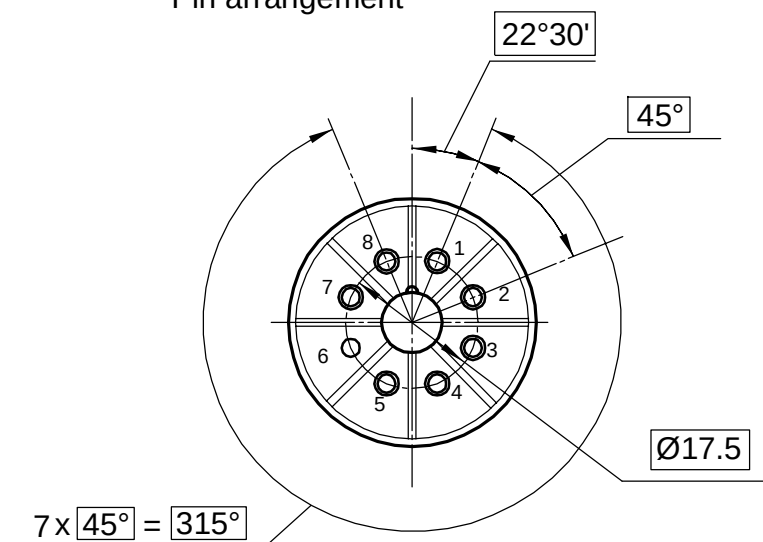
Operating conditions limits

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	7.0
Cathode - heater voltage, V	—	± 150
Cathode current, mA	—	200
First grid voltage, negative, V	—	200
Power dissipation at the plate, W	—	25
Power dissipation at the second grid, W	—	3.5
First grid circuit resistance, M Ω fixed bias	—	0.24
self - bias	—	1.0
Temperature at the most heated part of the envelope, K°	—	523

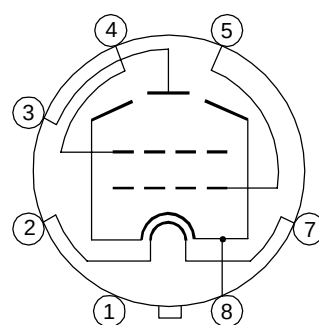


Vacuum tube KT77 Genalex is a beam tetrode in the glass bulb with octal base, with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

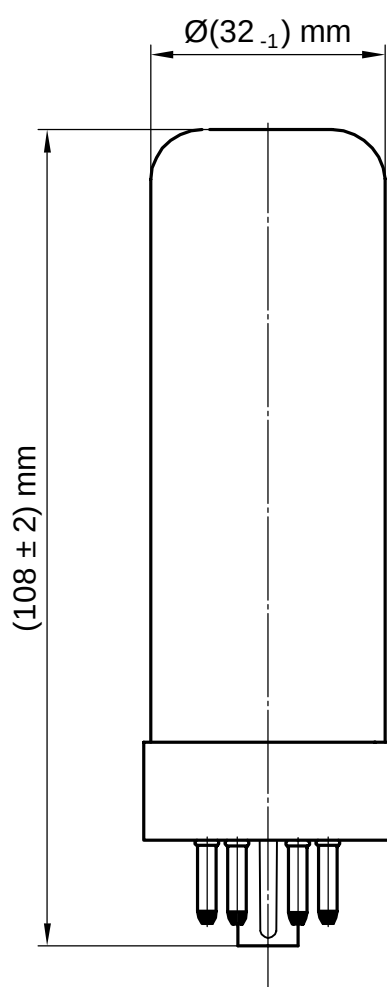
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



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

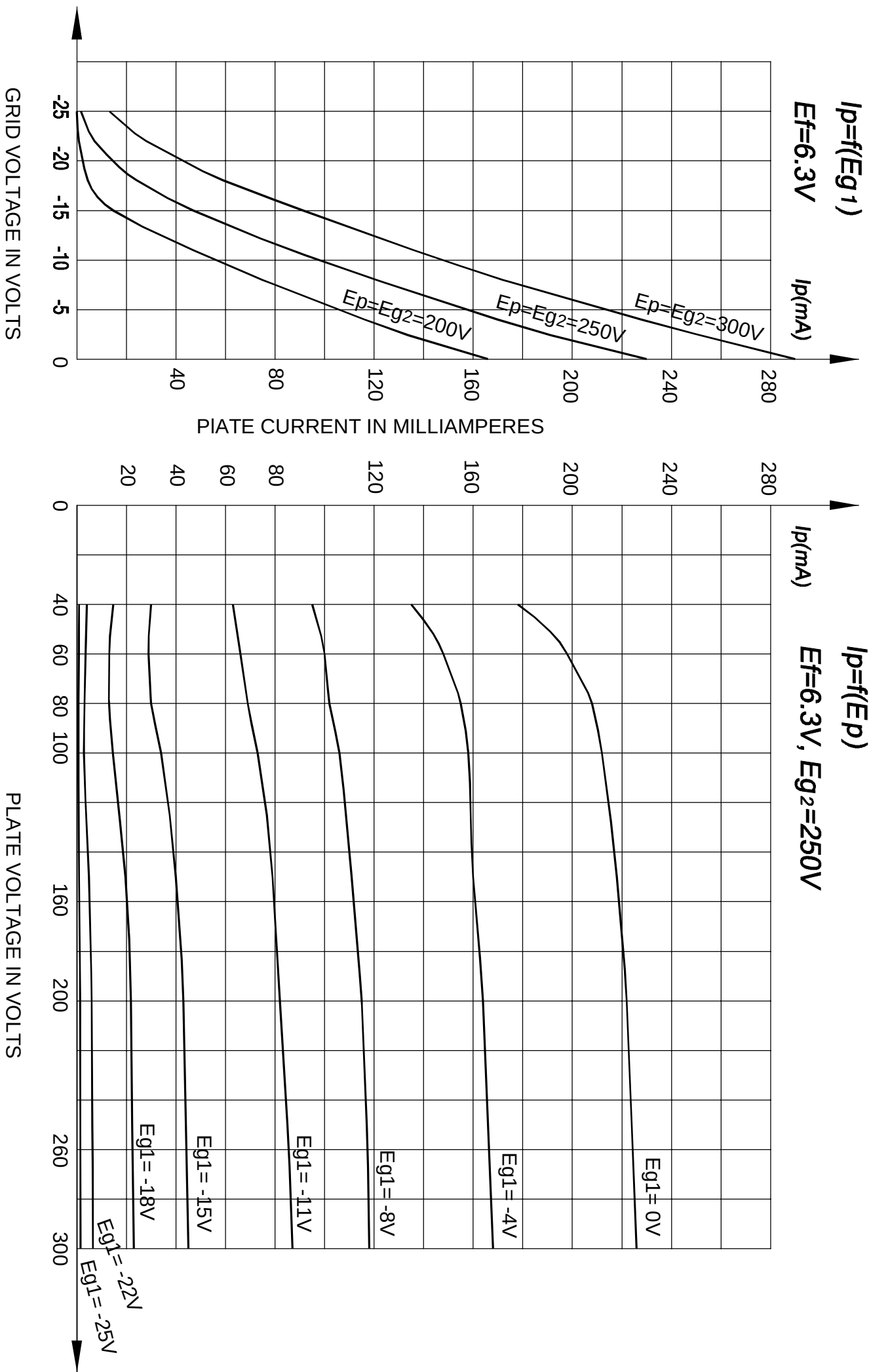
Electrical parameters

KT77 Genalex

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 11 V, second grid voltage 250 V, first grid circuit resistance 0.51 M Ω)	—	1.0
Heater current, A	1.45	1.7
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V)	80	130
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V)	—	17
Output power, W (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V, plate circuit resistance 2.0 k Ω , first grid alternating voltage, efficacious 7.8 V)	7.0	—
First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 250 V, second grid voltage 250 V)	—	40
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V)	8.5	14
Distortion factor,% (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V, plate circuit resistance 2.0 k Ω , first grid alternating voltage, efficacious 7.8 V)	—	14
Cahtode - heater insulation resistance, M Ω (at: filament voltage 6.3 V cathode -heater voltage ± 300 V)	10	—

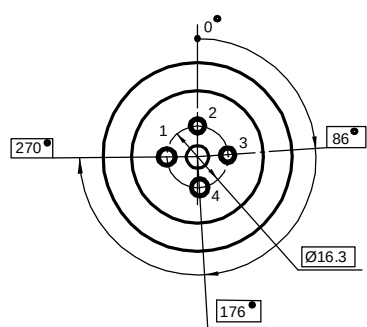
Operating conditions limits

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	7.0
Second grid voltage, V	—	600
Cathode - heater voltage, V	—	± 300
Cathode current, mA	—	180
Power dissipation at the plate, W	—	25
Power dissipation at the second grin, W	—	6
First grid circuit resistance for each, M Ω fixed bias	—	0.51
self - bias	—	1.0
Temperature at the most heated part of the envelope, K°	—	523

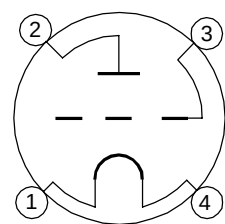


Vacuum tube PX2A3 Genalex Gold Lion is a triode with coated filament in the glass bulb, designed to amplify low frequency power in radio engineering devices.

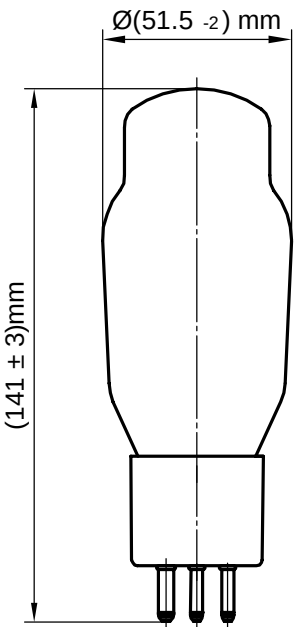
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



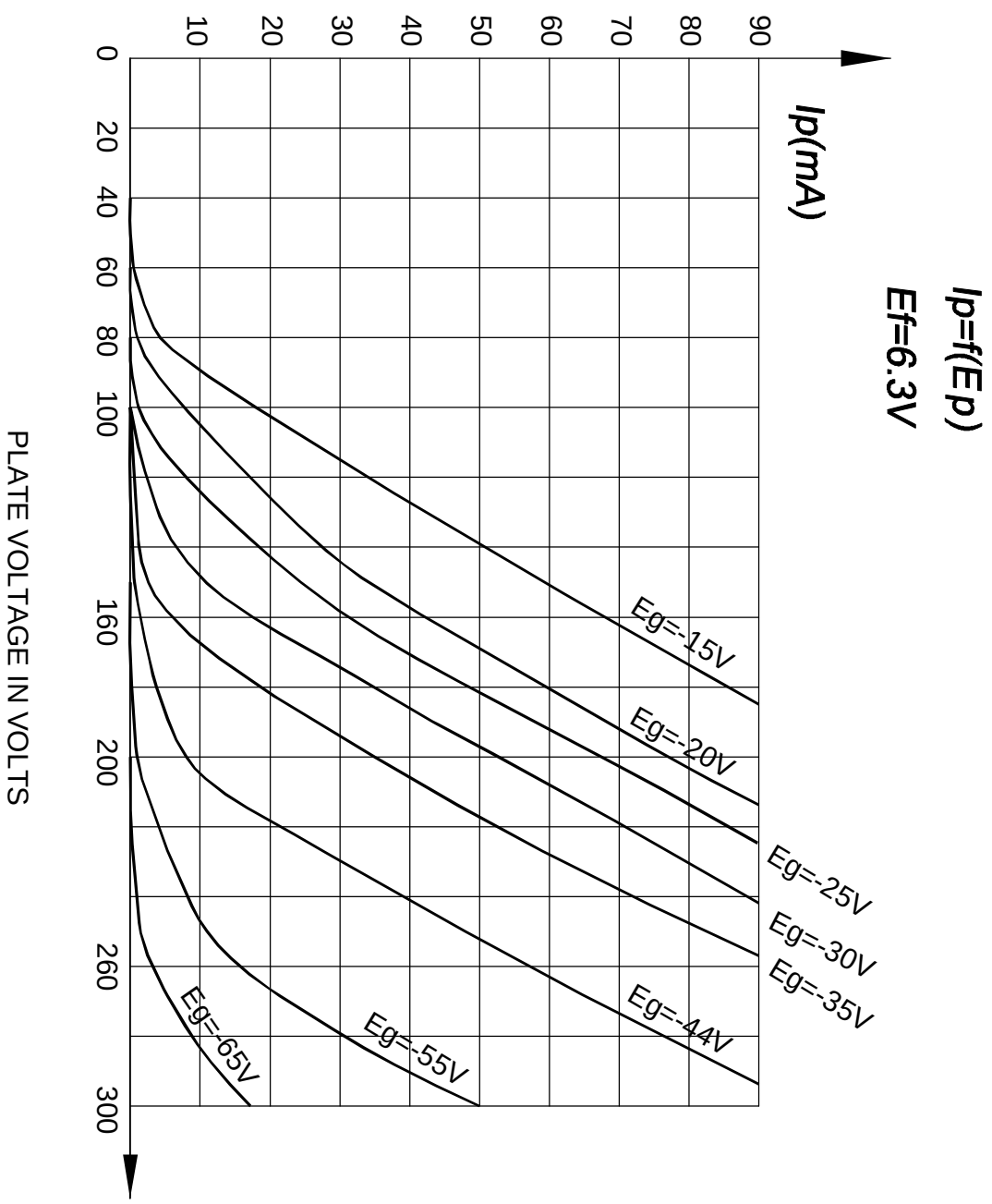
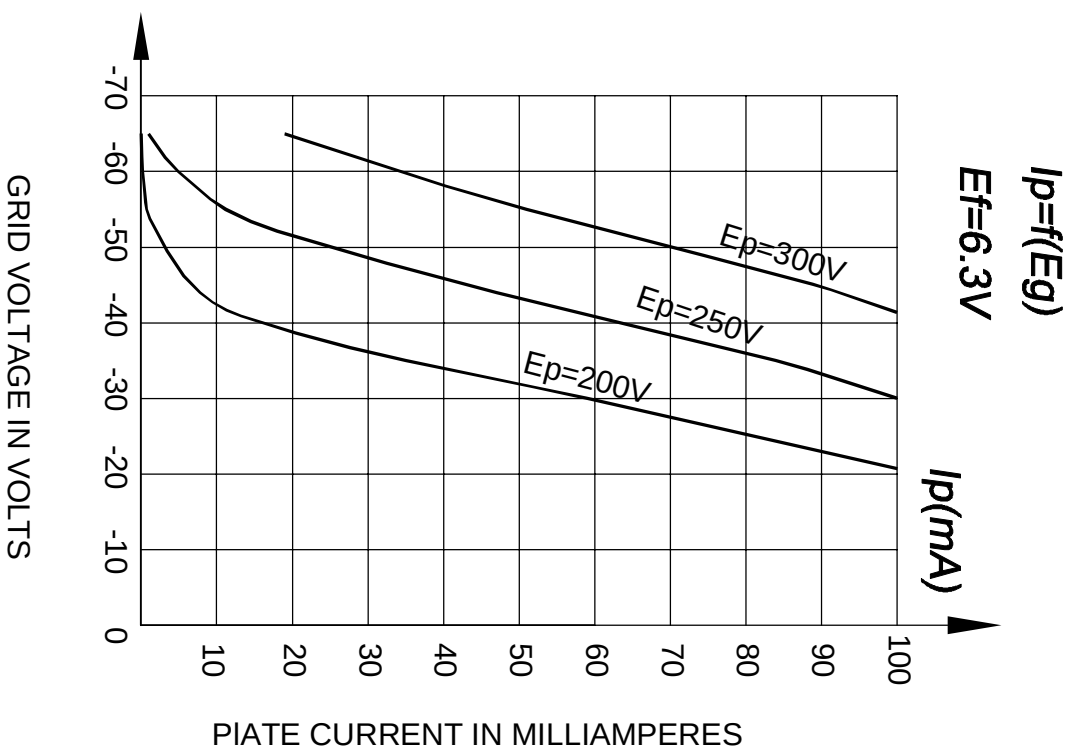
Lead designation	Name of electrode
1, 4	Cathode
2	Plate
3	Grid

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, A	2.3	2.8
Grid reverse current, μA , (at: filament voltage 2.5 V plate voltage 250 V, grid voltage minus 44 V, resistance in grid circuit 0.51 M Ω)	—	1.0
Plate current, mA, (at: filament voltage 2.5 V, plate voltage 250 V, grid voltage minus 44 V)	52	68
Slope of characteristic, mA/V (at: filament voltage 2.5 V, plate voltage 250 V, grid voltage minus 44 V)	3.8	
Amplification factor (at: filament voltage 2.5 V, plate voltage 250 V, grid voltage minus 44 V)	3.6	4.6
Output power, W (at: filament voltage 2.5 V, plate voltage 250 V, grid voltage minus 44 V, plate circuit resistance 2.5 k Ω , grid alternating voltage, efficacious 31 V)	3.0	—
Grid blanking voltage, V (at: filament voltage 2.5 V, plate voltage 250 V)		126

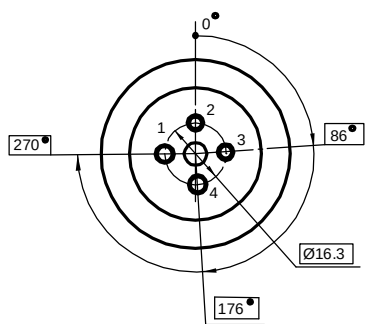
Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	2.25	2.75
Plate voltage, V	—	360
Cathode current, mA	—	100
Power dissipation at the plate of each triode, W	—	17.5
Grid voltage, negative, V	—	150
Grid circuit resistance , M Ω		
fixed bias	—	0.51
self - bias	—	1.0
Temperature at the most heated part of the envelope, K°	—	473

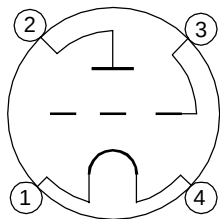


Vacuum tube PX300B Genalex gold is a triode with coated filament in the glass bulb, designed to amplify low frequency power in radio engineering devices.

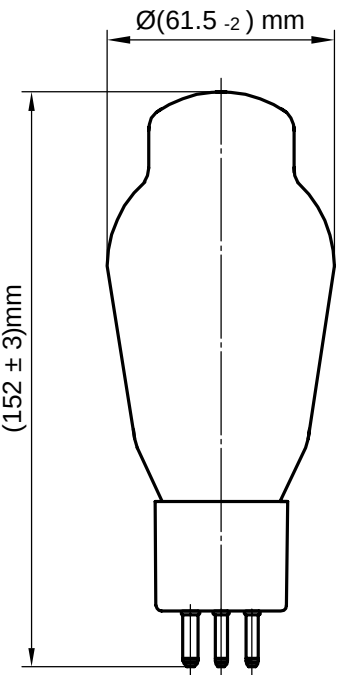
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



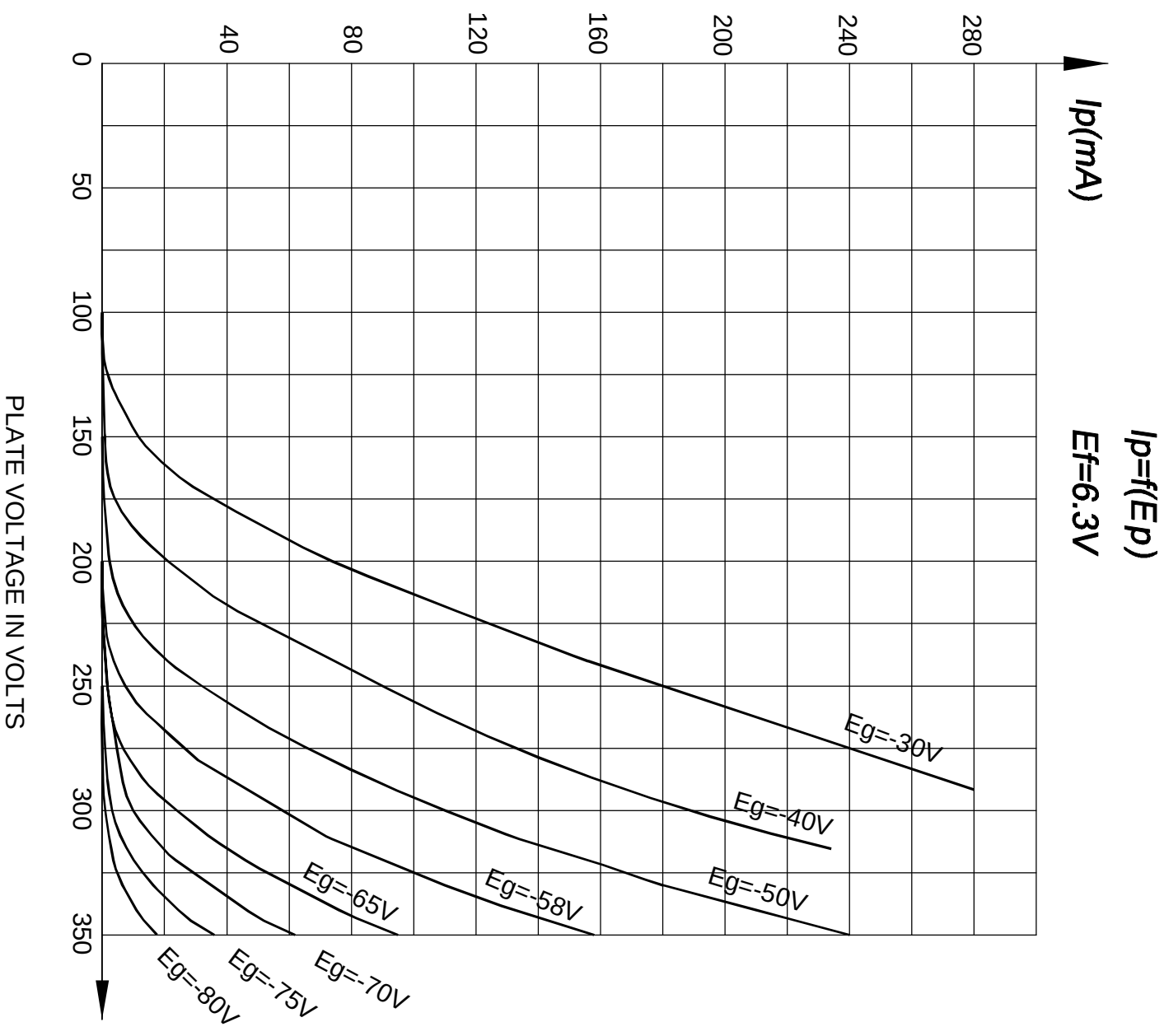
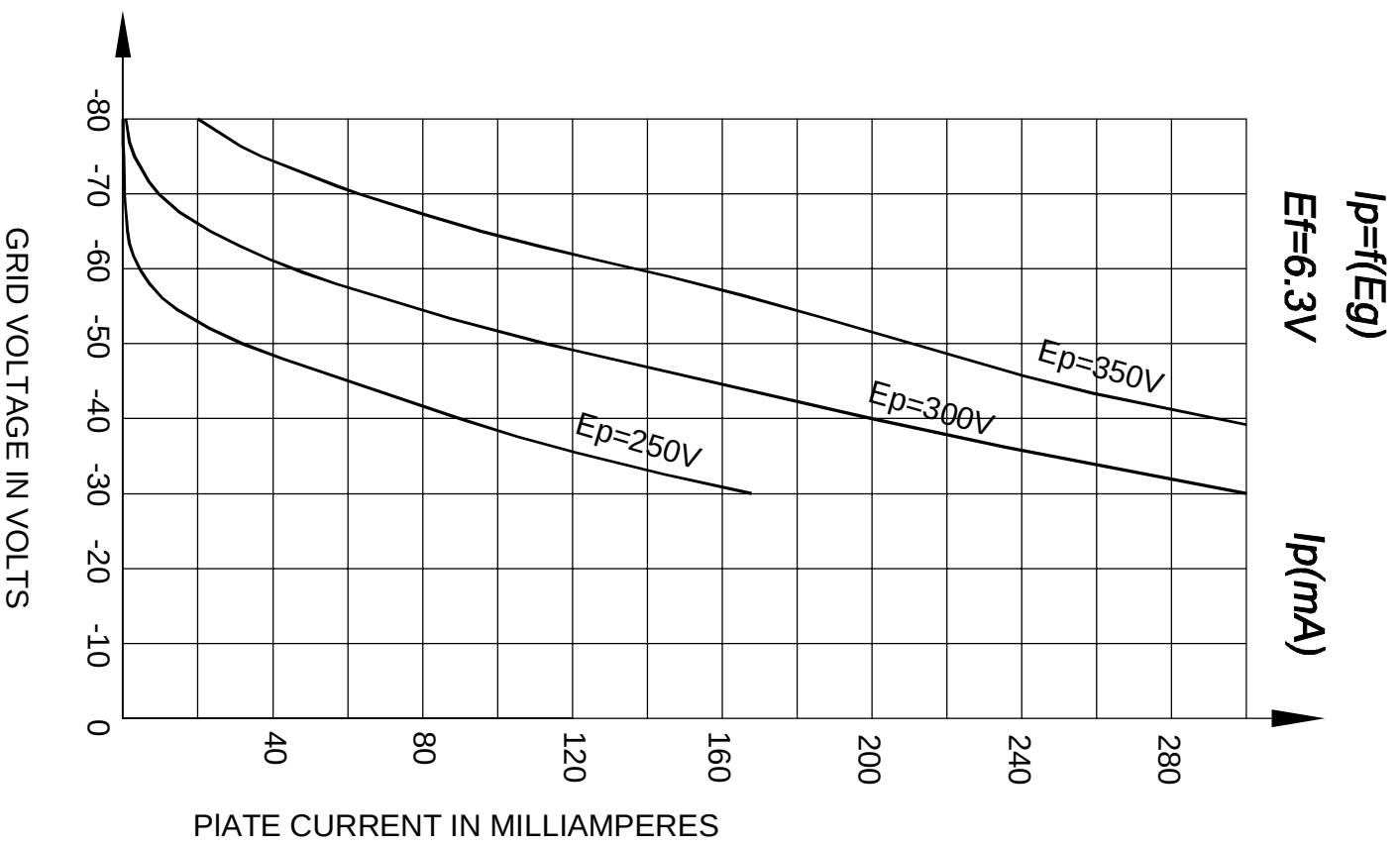
Lead designation	Name of electrode
1, 4	Cathode
2	Plate
3	Grid

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, A	1.1	1.4
Grid reverse current, μA , (at: filament voltage 5.0 V, plate voltage 450 V, grid voltage minus 97 V, resistance in grid circuit 0.51 M Ω)	—	1.0
Plate current, mA, (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	52	68
Slope of characteristic, mA/V (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	4.5	—
Amplification factor (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	3.0	—
Distortion factor, % (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V, plate circuit resistance 2.4 k, grid alternating voltage, efficacious 41 V)	—	10
Output power, W (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V, plate circuit resistance 2.4 k Ω , grid alternating voltage, efficacious 41 V)	5.5	—
Grid blanking voltage, V (at: filament voltage 6.3 V, plate voltage 303 V)	—	120

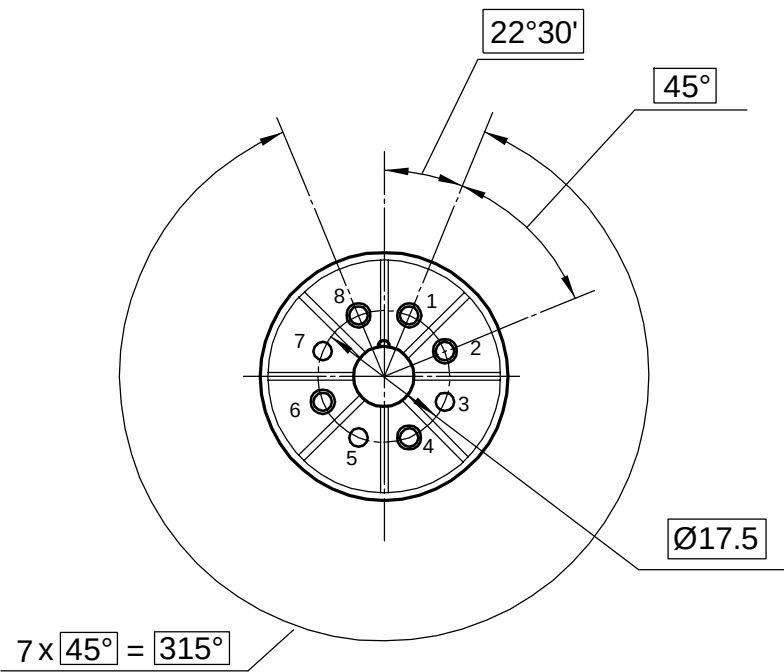
Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	4.5	5.5
Plate voltage, V	—	450
Cathode current, mA	—	100
Power dissipation at the plate of each triode, W	—	40
Grid voltage, negative, V	—	220
Grid circuit resistance ,M Ω fixed bias	—	0.51
self - bias	—	1.0
Temperature at the most heated part of the envelope, K°	—	473

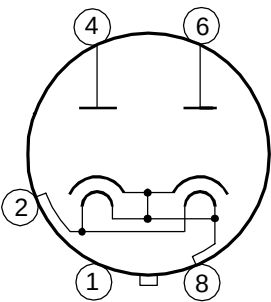


Vacuum tube U77/GZ34 Genalex Gold Lion is a two - plate cenotron in the glass bulb with octal base, wiht equipotential cathode, designed for two - nalf - period rectification of alternating current in the midpoint circuits in radio engineering devices.

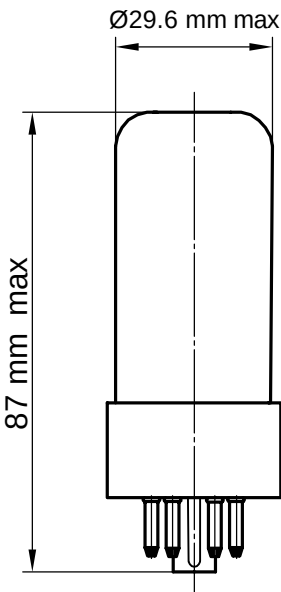
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



Lead designation	Name of electrode
1	Free
2	Heater
3, 5, 7	No
4	First diode plate
6	Second diode plate
8	Cathode, heater

Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, A	1.7	2.1
Diode anod current, mA (at: filament voltage 5.0 V, plate voltage 17 V)	180	280
Rectified current, mA (at: filament voltage 5.0 V, the voltage of the secondary winding of the transformer, effective, 2 x 550 V, load resistance 3000 Ω , capacitance in the cathode chain, 40 μ F)	180	—
First and second diodes plate current difference, % (at: filament voltage 5.0 V, plate voltage 17 V)		± 30

Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	4.5	5.5
Rectified current (average), mA	—	250
Anode current amplitude, mA	—	825
Current surge at the turn -on moment , A	—	3.7
Anod reverse voltage amplitude, V	—	1500
Temperature at the most heated part of the envelope, K°	—	473

