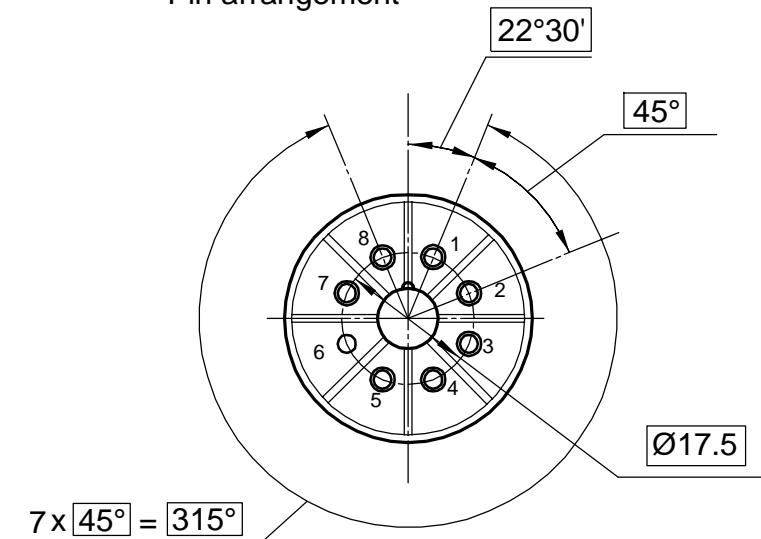
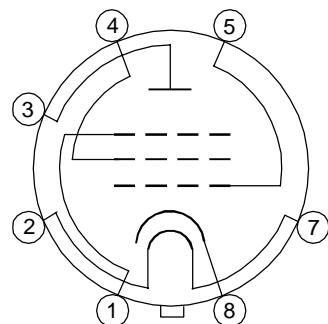


Vacuum tube EL34EH, EL34WXT is a output pentod in the glass bulb, with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

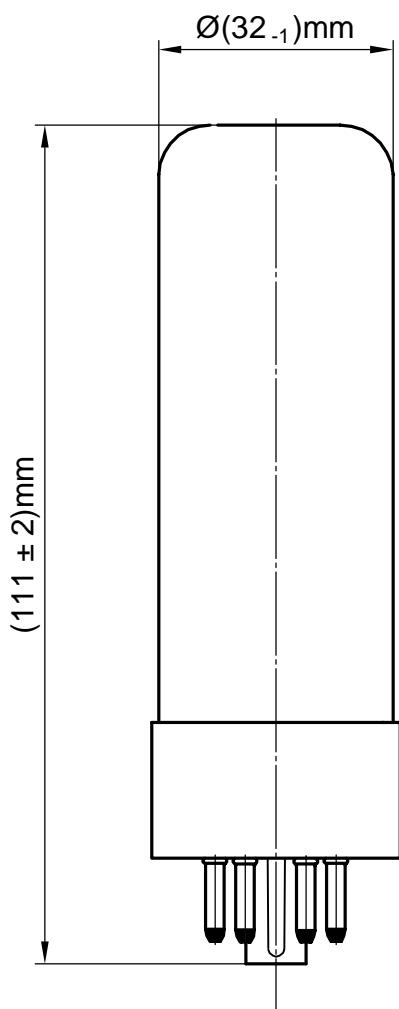
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



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

Electrical parameters

EL34EH, EL34WXT

Parameters, conditions and units	Nominal	
	min	max
First grid reverse current, μ A (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 13.5 V, second grid voltage 265 V, first grid circuit resistance 0.51 M Ω)	—	1.5
Heater current, A	1.35	1.65
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 13.5 V, second grid voltage 265 V)	80	120
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 13.5 V, second grid voltage 265 V)	10	20
Output power, W (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 13.5 V, second grid voltage 265 V, plate circuit resistance 2.0 k Ω , first grid alternating voltage, efficacious 8.7 V)	8.5	—
First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 250 V, second grid voltage 265 V)	—	48
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 13.5 V, second grid voltage 265 V)	9.5	15
Distortion factor, % (at: filament voltage 6.3 V, plate voltage 265 V, first grid voltage minus 13.5 V, second grid voltage 265 V, plate circuit resistance 2.0 k Ω , first grid alternating voltage, efficacious 8.7 V)	—	13.5
Cathode - heater insulation resistance, M Ω (at: filament voltage 6.3 V cathode -heater voltage \pm 100 V)	2	—

Operating conditions limits

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.5	7.0
Cathode - heater voltage, V	—	\pm 100
Cathode current, mA	—	150
Power dissipation at the plate, W	—	25
Power dissipation at the second grid, W	—	8
First grid circuit resistance, M Ω fixed bias	—	0.5
self - bias	—	0.7
Temperature at the most heated part of the envelope, K°	—	523

EL34EH, EL34WXT

$I_p = f(E_g 1)$
 $E_f = 6.3V$

$I_p(mA)$

$I_p = f(E_p)$
 $E_f = 6.3V, E_g 2 = 250V$

$E_g 1 = -4V$

$E_p = E_g 2 = 300V$

$E_g 1 = -6V$

$E_p = E_g 2 = 250V$

$E_g 1 = -10V$

$E_p = E_g 2 = 200V$

$E_g 1 = -13.5V$

$E_g 1 = -15V$

$E_g 1 = -18V$

$E_g 1 = -22V$

$E_g 1 = -25V$

PLATE CURRENT IN MILLIAMPERES

120
160
200

280
240
200

40
80
120

160
200
240
280

0

-30

-25

-20

-15

-10

-6

-4

0

GRID VOLTAGE IN VOLTS

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